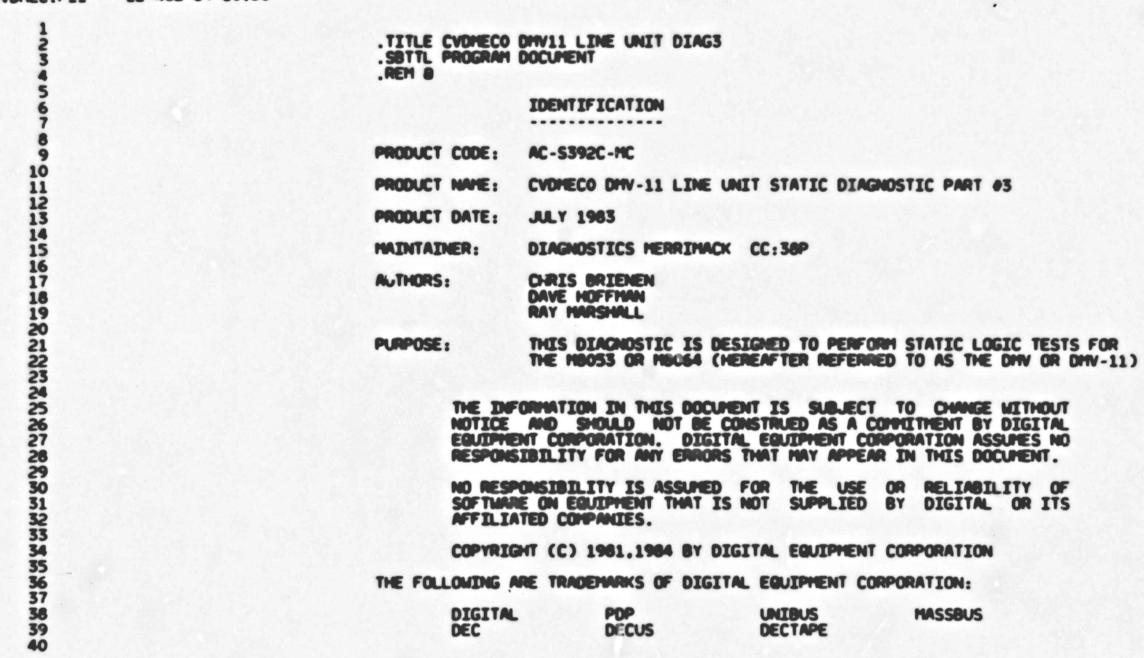
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1.0 INTRODUCTION

THE M8053 AND M8064 ARE SINGLE-LINE SYNCHRONOUS, MICRO-PROCESSOR BASED COMMUNICATIONS INTERFACES WHICH CAN SUPPORT BOTH CHARACTER-ORIENTED (DDCMP, BSC, ETC.) AND BIT-ORIENTED (SDLC, HDLC, ETC.) PROTOCOLS. THE PURPOSE OF THIS PROGRAM IS TO PERFORM STATIC DIAGNOSTIC TESTING OF THE VIA, FIFO, USYRT (BCP/BOP MODES), AND LINE DRIVERS ON THESE BOARDS. NOTE THAT ALL EXTERNAL LOOPBACK (XLB) TESTS ARE CONTAINED HERE. THE FOLLOWING FUNCTIONS WILL BE PERFORMED; MODEM LOOPBACK AND ASSORTED EXTERNAL LOOPBACK TESTS (INCLUDING BCP:CRC-16/ODD VRC/EVEN VRC; BOP:CRC-CCITT-1'S/O'S).

THE STATIC LOGIC TESTS WILL PROVIDE EXTENSIVE TROUBLESHOOTING CAPABILITIES, SUCH AS TIGHT SCOPE LOOPS, SHITCH OPTIONS, AND ABILITY TO "LOCK" ONTO INTERMITTENT ERRORS. IN ADDITION TESTS ARE DESIGNED AND STRUCTURED TO ACHIEVE MAXIMUM FAULT RESOLUTION AND FACILITATE REPLACEMENT OF THE SMALLEST FIELD REPLACEMBLE UNIT.

THIS PROGRAM IS IMPLEMENTED USING THE DIAGNOSTIC SUPERVISOR AND A STRUCTURED PROGRAMMING APPROACH. BECAUSE THE DESIGN CONFORMS TO THE SUPERVISOR (STANDALONE VERSION) THE PROGRAM IS COMPATIBLE WITH ACT, APT, XXDP+, AND SLIDE.

THROUGH DIALOGUE WITH THE OPERATOR, THE PROGRAM ALLOWS MODIFICATION OF DEVICE PARAMETERS, SUCH AS LSI-BUS ADDRESS, VECTOR ADDRESSES AND DEVICE PRIORITY. IN ADDITION, THE OPERATOR CAN SPECIFY PARTICULAR TESTS TO BE RUN AND A VARIETY OF LOOPING, RUNNING, AND REPORTING MODES.

DEVICE ERRORS WILL BE REPORTED AS THEY OCCUR. THE REPORT WILL INCLUDE A TEST NUMBER AND DESCRIPTION OF THE ERROR, GOOD AND BAD TEST DATA, AND APPLICABLE DEVICE REGISTER CONTENTS.

2.0 HARDWARE REQUIREMENTS

THE FOLLOWING HARDWARE IS REQUIRED TO RUN THE M8053/8064 STATIC LOGIC TESTS:

POP-11/03 OR POP-11/23 16K MORDS OF MEMORY CONSOLE TERMINAL M8053 OR M8064 COMMUNICATIONS INTERFACE

CVDMECO DMV11 LINE UNIT DIAG3 MACY1 CVDMEC.P11 12-JUL-84 10:56	1 30A(1052) 12-JUL-84 11:12 PAGE 6 PROGRAM DOCUMENT
156 157 158 159	THE FOLLOWING HARDWARE IS REQUIRED TO FULLY TEST THE DMV-11 LINE DRIVERS:
158 159 160	H3254, H3255 LOOPBACK CONNECTORS
161	3.0 PRELIMINARY PROGRAM REQUIREMENTS
160 161 162 163 164 165	THIS PROGRAM (CVDME) SHOULD BE THE LAST OF THE FIVE DMV-11 STATIC DIAGNOSTICS TO BE RUN.

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4.0 GENERAL PROGRAM CONSIDERATIONS

4.1 DIAGNOSTIC SUPERVISOR

THIS PROGRAM IS COMPATIBLE WITH THE STANDALONE DIAGNOSTIC SUPERVISOR, AND MUST BE LOADED TO BE CO-RESIDENT WITH THE SUPERVISOR, OR BE PREVIOUSLY COMBINED WITH THE SUPERVISOR AND LOADED AS A SINGLE FILE. IN EITHER CASE, THE COMBINED PROGRAM WILL NOT EXCEED 16K OF MEMORY.

4.2 EXECUTION TIME

THE MAXIMUM TIME REQUIRED TO RUN THIS PROGRAM IS ABOUT 30 SECONDS PER PASS FOR EACH UNIT.

4.3 XXDP+

THIS PROGRAM MAY BE LOADED UNDER XXDP+, AND MAY BE RUN IN DUMP MODE OR CHAIN MODE.

4.4 ACT/SLIDE

THIS PROGRAM MAY BE LOADED UNDER ACT OR SLIDE AND MAY BE RUN IN DUMP MODE OR CHAIN MODE.

4.5 APT

THIS PROGRAM MAY BE LOADED BY THE APT SYSTEM (INCLUDING APT-RD) AND RUN IN PROGRAM MODE OR SCRIPT MODE.

4.6 MEMORY MANAGEMENT

MEMORY MANAGEMENT IS NOT UTILIZED IN THIS PROGRAM.

4.7 ERROR LOGGING

AT THE END OF EACH PASS ON ALL UNITS. THE PROGRAM PRINTS OUT THE CUMULATIVE TOTAL NUMBER OF ERRORS SINCE THE LAST START OR RESTART COMMAND.

5.0 PROGRAM LOAD MEDIA

THIS PROGRAM CAN BE LOADED FROM PAPER TAPE USING THE ABSOLUTE LOADER OR FROM ACT, SLIDE, OR APT SYSTEMS, OR FROM ANY MEDIA SUPPORTED BY XXDP+. WHEN USING THE PAPER TAPE ABSOLUTE LOADER, THE PROGRAM SHOULD BE LOADED FIRST, FOLLOMED BY THE DIAGNOSTIC SUPERVISOR. WHEN USING XXDP+, THE

CVDMECO DMV11 CVDMEC.P11	LINE UNIT DIAGS 12-JUL-84 10:56	MACY11 30A(1052) 12-JUL-84 11:12 PAGE 8 PROGRAM DOCUMENT
222 223 224		DIAGNOSTIC SUPERVISOR SHOULD BE LOADED FIRST, FOLLOWED BY THE DIAGNOSTIC PROGRAM.
222 223 224 225 226 227 228		6.0 OPERATING INSTRUCTIONS
228		C 1 LOADTHE AND STADTING PROCESURES

- 6.0 OPERATING INSTRUCTIONS
- 6.1 LOADING AND STARTING PROCEDURES
- 6.1.1 LOADING PROCEDURES

THIS PROGRAM MAY BE LOADED FROM PAPER TAPE USING THE ABSOLUTE LOADER. IT MAY ALSO BE LOADED FROM ANY XXDP+ LOAD MEDIA. WHEN LOADED UNDER XXDP+, THE DIAGNOSTIC SUPERVISOR WILL BE LOADED AUTOMATICALLY.

6.1.2 STARTING PROCEDURES

THE PROGRAM STARTS AT LOCATION 200, USE STANDARD DEC PROCEDURES TO START THE PROGRAM.

6.1.3 STEPS FOR QUICK AND SIMPLE EXECUTION

THE DIAGNOSTIC CAN BE EXECUTED STANDALONE UNDER XXDP+. WITHOUT READING THE REMAINDER OF THIS DOCUMENT, AS FOLLOWS:

- A) LOAD AND START DIAGNOSTIC USING RUN COMMAND
- B) RECEIVE DIAGNOSTIC SUPERVISOR IDENTIFICATION AND PROMPT (DRS-C>)
- C) ENTER STACES
- D) ANSHER HARDHARE AND SOFTHARE QUESTIONS
- E) GET END OF PASS MESSAGES OR ERROR MESSAGES
- F) TO END EXECUTION, ENTER CONTROL/C

6.2 INITIAL DIALOGUE

AFTER THE PROGRAM AND THE SUPERVISOR ARE LOADED AND THE PROGRAM IS STARTED, THE FOLLOWING IDENTIFICATION IS TYPED :

DRS LOADED DIAG. RUN-TIME SERVICES CVDME-C-0 DMV-11 LINE UNIT TESTS - PART 3 OF 3 UNIT IS M8053 OR M8064

THE OPERATOR THEN PROCEEDS BY TYPING ONE OR MORE OF THE COMMANDS DESCRIBED IN THE FOLLOWING SECTION 6.3. (FOR MORE DETAILED INFORMATION, REFER TO THE DIAGNOSTIC SUPERVISOR FUNCTIONAL SPECIFICATION).

6.3 PROGRAM OPTIONS

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6.3.1 START COMMAND

STA(RT)/TESTS:<TEST-LIST>/PASS:<PASS-CNT>/FLAGS:
<FLAG-LIST>/EOP:<INCR>

6.3.1.1 TESTS SWITCH (/TESTS: <TEST-LIST>)

<TEST-LIST> IS A SEQUENCE OF DECIMAL NUMBERS (1:2 ETC.) OR RANGES OF DECIMAL NUMBERS (1-5:8-10 ETC.) THAT SPECIFY THE TESTS TO BE EXECUTED. THE NUMBERS ARE SEPARATED BY COLONS. THE NUMBERS RANGE FROM 1 TO THE LARGEST TEST NUMBER IN THE DIAGNOSTIC. THEY MAY BE SPECIFIED IN ANY ORDER. TESTS WILL BE EXECUTED IN NUMERICAL ORDER REGARDLESS OF THE ORDER OF SPECIFICATION. THE DEFAULT IS TO EXECUTE ALL TESTS. ON THIS AND ALL SMITCHES, THE ANGLE BRACKETS <> ARE PUNCTUATION USED IN THE DEFINITION ONLY, AND ARE NOT TO BE TYPED BY THE OPERATOR. SEE EXAMPLE AT END OF 6.3.1.5.

6.3.1.2 PASS SWITCH (/PASS: <PASS-CNT>)

<PASS-CNT> IS A DECIMAL NUMBER INDICATING THE DESIRED NUMBER OF PASSES. A PASS IS DEFINED AS THE EXECUTION OF THE FULL DIAGNOSTIC (ALL SELECTED TESTS) AGAINST ALL UNITS SUBMITTED. THE DEFAULT IS NON-ENDING EXECUTION. IN THIS CASE EXIT FROM THE PROGRAM IS ACCOMPLISHED EITHER BY TYPING A CONTROL/C OR BY OCCURANCE OF AN ERROR WITH THE HALT ON ERROR FLAG BEING SET. THE EXIT IS A RETURN TO COMMAND MODE. SEE EXAMPLE AT END OF 6.3.1.5.

6.3.1.3 FLAGS SWITCH (/FLAGS: <FLAG-LIST>)

INTERVENTION TESTS

<FLAG-LIST> IS A SEQUENCE OF ELEMENTS OF THE FORM <FLAG>,
<FLAG=1>, OR <FLAG=0>, SEPARATED BY COLONS, WHERE <FLAG> HAS
ONE OF THE FOLLOWING VALUES:

HALT ON ERROR, CAUSING COMMAND MODE TO BE ENTERED WHEN AN ERROR IS ENCOUNTERED LOOP ON ERROR, CAUSING THE DIAGNOSTIC TO LOOP CONTINUOUSLY WITHIN THE SMALLEST DEFINED BLOCK OF CODING (SEGMENT, SUBTEST, OR TEST) CONTAIN-ING THE ERROR INHIBIT ERROR REPORTING IER IBE INHIBIT BASIC ERROR REPORTS IXE INHIBIT EXTENDED ERROR REPORTS DIRECT ALL MESSAGES TO A LINE PRINTER PRI PRINT NUMBER OF TEST BEING EXECUTED PNT BELL ON ERROR RUN IN UNATTENDED MODE, BYPASSING MANUAL

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ISR INHIBIT STATISTICAL REPORTS
IDU INHIBIT DROPPING OF UNITS BY DIAGNOSTIC
LOT LOOP ON TEST

THE FLAGS NAMED OR EQUATED TO 1 ARE SET, THOSE EQUATED TO 0 ARE CLEARED. A FLAG NOT SPECIFIED IS CLEARED. IF THE FLAGS SWITCH IS NOT GIVEN ALL FLAGS ARE CLEARED. SEE EXAMPLE AT END OF 6.3.1.5.

6.3.1.4 END OF PASS SWITCH (/EOP: <INCR>)

<INCR> IS A DECIMAL NUMBER INDICATING HOW OFTEN (IN TERMS OF PASSES) IT IS DESIRED THAT THE END OF PASS MESSAGE BE PRINTED. THE DEFAULT IS AT THE END OF EVERY PASS. SEE EXAMPLE AT END OF 6.3.1.5.

6.3.1.5 EFFECT OF START COMMAND

THE EFFECT OF THE START COMMAND IS TO INITIATE THE HARDWARE PARAMETER DIALOGUE, THE SOFTWARE PARAMETER DIALOGUE, AND THEN THE DIAGNOSTIC TESTS THEMSELVES.

THE HARDWARE PARAMETER DIALOGUE COMMENCES WITH THE QUESTION "0 UNITS?" TO WHICH THE OPERATOR REPLIES WITH A DECIMAL NUMBER N FROM 1 TO 16. THE TERM "UNIT" REFERS TO THE DEVICE TO WHICH THIS SERIES OF DIAGNOSTICS IS DEDICATED. FOLLOWING THIS ARE THE QUESTIONS WHEREBY THE P-TABLES THEMSELVES WILL BE BUILT. EACH P-TABLE IS A CORE-RESIDENT TABLE CONTAINING ALL THE HARDWARE INFORMATION FOR ONE UNIT. THE OPERATOR HUST SUPPLY N (NUMBER OF UNITS) VALUES FOR EACH QUESTION. HE MAY DO THIS BY GIVING ONE ANSWER TO EACH QUESTION (IN WHICH CASE THE SERIES OF QUESTIONS WILL BE POSED N TIMES) OR BY GIVING N VALUES, SEPARATED BY COMMAS, TO EACH QUESTION (SERIES WILL BE POSED ONCE). EACH QUESTION IS FOLLOWED BY THE RESPONSE RADIX (D FOR DECIMAL, B FOR BINARY, O FOR OCTAL, L FOR YES/NO) IN PARENTHESES AND THE DEFAULT VALUE AFTER THE PARENTHESES.

FOLLOWING THE HARDMARE QUESTIONS ARE THE SOFTWARE QUESTIONS TO BUILD THE SOFTWARE TABLES, WHICH DEFINE THE MODE (QUICK VERIFY ETC.) THAT THE DIAGNOSTIC WILL EXECUTE IN.

WHEN THE QUESTION "# UNITS?" IS ANSHERED, MEMORY STORAGE IS ALLOCATED FOR THE P-TABLES, AND IF THERE IS NOT ENOUGH TO ACCOMMODATE THEM THE MESSAGE "TOO MANY UNITS" IS ISSUED. IN THIS CASE THE DIAGNOSTIC MUST BE EXECUTED MORE THAN ONCE TO TEST ALL UNITS.

EXAMPLE:

STA/TESTS:1:2-4:6:8-10/PASS:3/FLAGS:IER:HOE=1:UAM:LOE

THIS COMMAND WILL CAUSE THREE PASSES TO BE MADE, EACH PASS CONSISTING OF TESTS 1,2,3,4,6,8,9, AND 10 EXECUTED AGAINST

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ALL UNITS. THERE IS NO DIFFERENCE BETWEEN SAYING <FLAG> AND SAYING <FLAG=1>. THE NOTATION <FLAG=0> IS MEANINGFUL ONLY ON A COMMAND OTHER THAN START TO CLEAR A FLAG THAT WAS PREVIOUSLY SET. NOTE THAT ON ALL COMMANDS ONLY THE FIRST THREE LETTERS ARE SCANNED.

6.3.2 RESTART COMMAND

RES(TART)/TESTS:<TEST-LIST>/PASS:<PASS-CNT>/FLAGS:
<FLAG-LIST>/UNITS:<UNIT-LIST>

6.3.2.1 TESTS, PASS, AND FLAGS SWITCHES

<TEST-LIST>, <PASS-CNT>, AND <FLAG-LIST> ARE AS IN THE START COMMAND.

6.3.2.2 UNITS SWITCH (/UNITS: <UNIT-LIST>)

CUNIT-LIST> IS A SEQUENCE OF DECIMAL NUMBERS (0,1 ETC.) OR RANGES OF DECIMAL NUMBERS (0-5, 8-10 ETC.) THAT SPECIFY THE UNITS TO BE TESTED. THE NUMBERS ARE SEPARATED BY COLONS. THE NUMBERS HAY RANGE FROM 0 THRU N-1 (N IS THE NUMBER OF UNITS SPECIFIED IN THE PREVIOUS START COMMAND). THE NUMBER INDICATES THE POSITION OF THE P-TABLE AS THE DATA HAS ENTERED DURING THE HARDMARE DIAGLOGUE. THE UNITS WHICH ARE SELECTED MUST NOT HAVE BEEN DROPPED BY THE DROP COMMAND. SEE THE DISCUSSION OF ADD AND DROP COMMANDS BELOW. DEFAULT IS TO TEST ALL UNITS WHICH HAVE NOT BEEN DROPPED BY A DROP COMMAND.

6.3.2.3 EFFECT OF RESTART COMMAND

THE RESTART COMMAND DIFFERS FROM THE START COMMAND IN THAT THE P-TABLES FROM THE PREVIOUS START COMMAND (THERE MUST HAVE BEEN ONE) ARE USED, INSTEAD OF NEW ONES BEING BUILT. THE UNITS SMITCH GIVES THE ABILITY TO SELECT A SUBSET OF THESE. THE SOFTWARE DIALOGUE MAY OPTIONALLY BE REEXECUTED (OPERATOR WILL BE ASKED). THE COMMAND CAN BE USED AFTER COMMAND MODE HAS BEEN REENTERED IN ANY OF THE THREE NORMAL WAYS: A) THE REQUESTED NUMBER OF PASSES HAVE BEEN MADE B) AN ERROR WAS ENCOUNTERED WITH THE HALT ON ERROR FLAG SET C) A CONTROL/C WAS ENTERED BY THE OPERATOR.

6.3.3 CONTINUE COMMAND

CON(TINUE)/PASS: <PASS-CNT/FLAGS: <FLAG-LIST>

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446 447 448	6.3.3.1 PASS SWITCH (/PASS: <pass-cnt>)</pass-cnt>
449 450 451 452	<pre><pass-cnt> IS SAME AS IN START COMMAND, BUT THE DEFAULT IS THE UNSATISFIED PASS-CNT FROM THE PREVIOUS START OR RESTART. IF NONE REMAINS, THE DEFAULT IS NON-ENDING EXECUTION.</pass-cnt></pre>
453 454	6.3.3.2 FLAG SWITCH (/FLAGS: <flag-list>)</flag-list>
457 458	<pre><flag-list> IS SAME AS IN START COMMAND, BUT UNSPECIFIED FLAGS RETAIN THEIR CURRENT VALUE.</flag-list></pre>
459 460	6.3.3.3 EFFECT OF CONTINUE COMMAND
461 462 463 464 465 466 467 468	CONTINUE MUST FOLLOW A START OR RESTART, AND COMMAND MODE MUST HAVE BEEN ENTERED DUE TO A HALT ON ERROR OR A CONTROL/C. THE EFFECT OF THE COMMAND IS TO GO TO THE BEGINNING OF THE TEST THAT WAS BEING EXECUTED WHEN THE HALT OR CONTROL/C TOOK PLACE, SOFTWARE DIALOGUE MAY OPTIONALLY BE REEXECUTED. HARDWARE PARAMETERS MAY NOT BE CHANGED.
469 470 471	6.3.4 PROCEED COMMAND
472 473 474 475	PRO(CEED)/FLAGS: <flag-list></flag-list>
476 477	6.3.4.1 FLAGS SWITCH (/FLAGS: <flag-list>)</flag-list>
478 479 480 481	<pre><flag-list> IS AS IN THE START COMMAND, BUT UNSPECIFIED FLAGS RETAIN THEIR CURRENT VALUE.</flag-list></pre>
482 483	6.3.4.2 EFFECT OF PROCEED COMMAND
484 485 486 487 488 489 490	PROCEED MUST FOLLOW A START, RESTART, OR CONTINUE. COMMAND MODE MUST HAVE BEEN ENTERED VIA A HALT ON ERROR. THE EFFECT OF THE COMMAND IS TO BEGIN EXECUTION AT THE LOCATION FOLLOWING THE ERROR CALL. NEITHER HARDWARE NOR SOFTWARE PARAMETERS MAY BE ALTERED.
491 492	6.3.5 ADD COMMAND
493 494 495 496 497	ADD/UNITS: <unit-list></unit-list>
498 499 500	6.3.5.1 UNITS SWITCH (/UNITS: <unit-list></unit-list>
501	<pre><unit-list> IS AS IN THE RESTART COMMAND.</unit-list></pre>

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6.3.5.2 EFFECT OF ADD COMMAND

THE UNITS SPECIFIED ARE ADDED TO THE TEST SEQUENCE. EACH UNIT MUST HAVE A P-TABLE IN MEMORY DUE TO AN EARLIER HARDMARE DIALOGUE. THIS COMMAND MUST BE FOLLOWED BY A RESTART OR CONTINUE. THE UNITS SWITCH MUST BE SPECIFIED. THE ADD COMMAND IS MEANINGFUL ONLY FOR UNITS THAT WERE PREVIOUSLY DROPPED.

6.3.6 DROP COMMAND

DRO(P)/UNITS:<UNIT-LIST>

6.3.6.1 UNITS SWITCH (/UNITS: <UNIT-LIST>)

(UNIT-LIST) IS AS IN THE RESTART COMMAND.

6.3.6.2 EFFECT OF DROP COMMAND

THE UNITS SPECIFIED WILL BE DROPPED FROM TESTING. THE UNITS WILL BE RESELECTED ONLY BY THE EXECUTION OF AN ADD OR START COMMAND. THE UNITS SWITCH MUST BE ENTERED. THIS COMMAND MUST BE FOLLOWED BY A RESTART OR A CONTINUE COMMAND.

6.3.7 PRINT COMMAND

PRI(NT)

6.3.7.1 EFFECT OF PRINT COMMAND

THE TOTAL NUMBER OF ERRORS FOR EACH UNIT SINCE THE LAST START OR RESTART COMMAND ARE PRINTED. THE ISR (INHIBIT STATISTICAL REPORTING) FLAG IS CLEARED.

6.3.8 DISPLAY COMMAND

DIS(PLAY)/UNITS:<UNIT-LIST>

6.3.8.1 UNITS SWITCH (/UNITS: <UNIT-LIST>)

<UNIT-LIST> IS AS IN THE RESTART COMMAND.

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6.3.8.2 EFFECT OF DISPLAY COMMAND

THE HARDWARE P-TABLES FOR ALL UNITS UNDER TEST ARE PRINTED OUT IN THE FORMAT IN WHICH THEY WERE ENTERED. ANY UNITS THAT WERE DROPPED BY THE OPERATOR "DROP" COMMAND ARE SO DESIGNATED.

6.3.9 FLAGS COMMAND

FLA(GS)

6.3.9.1 EFFECT OF FLAGS COMMAND

THE CURRENT SETTINGS OF ALL FLAGS ARE PRINTED.

6.3.10 ZFLAGS COMMAND

ZFL(AGS)

6.3.10.1 EFFECT OF ZFLAGS COMMAND

ALL FLAGS ARE CLEARED.

6.3.11 CONTROL CHARACTERS

A CONTROL C (C) ENTERED DURING THE EXECUTION OF A DIAGNOSTIC CAUSES A RETURN TO COMMAND MODE.

A CONTROL Z (Z) ENTERED DURING ONE OF THE THREE OPERATOR DIALOGUES- HARD CORE QUESTIONS (SEE 6.2), HARDWARE DIALOGUE (SEE 6.3.1.5), OR SOFTWARE DIALOGUE (SEE 6.3.1.5) CAUSES THE DEFAULTS TO BE TAKEN FOR THE REMAINDER OF THAT DIALOGUE.

A CONTROL O (0) ENTERED DURING THE EXECUTION OF A DIAGNOSTIC CAUSES ALL TELETYPE OUTPUT TO BE SURPRESSED FOR THE REMAINDER OF THE DIAGNOSTIC OR UNTIL ANOTHER O IS TYPED, WHICH RESTORES NORMAL TELETYPE OUTPUT.

6.3.12 HARDWARE PARAMETERS

THE FOLLOWING 3 QUESTIONS WILL BE ASKED ON A START COMMAND. THE VALUE LOCATED TO THE LEFT OF THE QUESTION MARK IS THE DEFAULT VALUE THAT WILL BE TAKEN ON A CARRIAGE RETURN RESPONSE.

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1. DEVICE CSR ADDRESS : (0) 160020?

THIS IS THE ADDRESS AT WHICH THE CSR REGISTERS (SELO) RESIDE ON THE LSI-BUS. THE ALLOWABLE RANGE IS 160020-177760 (OCTAL), AND THE DEFAULT VALUE IS 160020.

2. DEVICE VECTOR ADDRESS : (0) 300 ?

THIS IS THE ADDRESS OF THE INPUT INTERRUPT VECTOR FOR THIS DEVICE. THE ALLOWABLE RANGE IS 000-674 (OCTAL), AND THE DEFAULT VALUE IS 300.

3. DEVICE PRIORITY LEVEL : (0) 4 ?

THIS IS THE CPU PRIORITY AT WHICH THE INTERRUPT HANDLERS OF THIS DEVICE WILL BE EXECUTED. THE ALLOWAGLE RANGE IS 0-7, AND THE DEFAULT VALUE IS 4.

4. BOARD TYPE (0-M8064, 1-M8053-V35, 2-M8053-EIA) : (0) 0 ?

THIS IS THE TYPE OF DAY-11 CURRENTLY INSTALLED. NOTE THAT THE MOOSS IS SMITCH SELECTABLE BETWEEN V.35 AND EIA.

5. TURNAROUND CONNECTOR TYPE .
(0-HS2546HS255, 1-INTEGRAL MODEN CABLE, 2-EIA CABLE, 3-V.35 CABLE, 4-NONE): (0) 0 ?

THIS IS THE TYPE OF EXTERNAL LOOPBACK CONNECTOR BEING USED. IF NO LOOPBACK CONNECTOR IS PRESENT (4), THE EXTERNAL LOOPBACK TESTS WILL ALL BE RUN USING TTL-INTERNAL LOOPBACK.

6.3.13 SOFTWARE PARAMETERS

NO SOFTWARE PARAMETER QUESTIONS ARE ASKED BY THIS TEST.

6.3.14 EXTENDED DISCUSSION OF P-TABLE DIALOGUE

THE FULL CAPABILITY OF THE HARDMARE DIALOGUE IS REVEALED BY THE FOLLOWING DISCUSSION OF WHAT HAPPENS INTERNALLY.

AS SOON AS THE QUESTION "# UNITS?" IS ANSWERED (WITH THE NUMBER N, SAY) SPACE IN CORE IS ALLOCATED FOR N P-TABLES. ALL OF THE P-TABLES ARE OF THE SAME FORMAT, AND THERE IS A ONE-TO ONE CORRESPONDENCE SETWEEN THE HARDWARE PARAMETER QUESTIONS AND THE SLOTS IN THE P-TABLE FORMAT.

ON THE FIRST TRIP THRU THE QUESTIONS, ALL OF THE SLOTS IN ALL OF THE P-TABLES ARE FILLED. IF THE OPERATOR TYPES IN LESS THAN N EXPLICIT VALUES IN RESPONSE TO A PARTICULAR QUESTION, THESE VALUES ARE PLACED IN THE P-TABLES (ONE VALUE GOING INTO THE PROPER SLOT OF EACH P-TABLE BEGINNING WITH THE FIRST P-TABLE) UNTIL THE STRING OF VALUES IS EXHAUSTED. THE LAST VALUE IN THE STRING BECOMES THE NEW DEFAULT AND IS

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USED TO FILL THAT SLOT IN THE REMAINING P-TABLES.

ON SUBSEQUENT TRIPS THRU THE QUESTIONS, THE SAME PROCESS IS CARRIED OUT, EXCEPT THAT THE EARLIEST P-TABLE NOT TO HAVE RECEIVED AN EXPLICIT VALUE IN ANY OF ITS SLOTS NOW ASSUMES THE ROLE THAT TABLE NUMBER ONE PLAYED IN THE FIRST TRIP.

THE SERIES OF QUESTIONS IS REISSUED UNTIL AT LEAST ONE QUESTION HAS RECEIVED N EXPLICIT VALUES FROM THE OPERATOR.

IN GIVING A STRING OF VALUES, COMMAS WITHOUT INTERVENING VALUES MAY BE USED TO INDICATE A REPETITION OF THE LAST NAMED VALUE.

A STRING OF VALUES MAY BE GIVEN AS A RANGE (6-10 FOR EXAMPLE), IF THE VALUES REPRESENT PURE NUMERICAL DATA, THIS SAMPLE RANGE TRANSLATES TO THE STRING 6,7,8,9,10 (AN INCREMENT OF 1), IF THE VALUES ARE ADDRESSES, THE SAMPLE RANGE TRANSLATES TO THE STRING 6,8,10 (AN INCREMENT OF 2).

NOW LET US SEE HOW WE COULD USE THESE CAPABILITIES TO CONSTRUCT A SET OF P-TABLES. ASSUME THAT WE HAVE 16 UNITS, AND THAT THERE ARE THREE HARDWARE PARAMETERS FOR EACH (THREE SLOTS IN THE P-TABLE, THREE HARDWARE QUESTIONS IN THE DIALOGUE). LET THE DESIRED VALUE FOR THE FIRST PARAMETER BE THE NUMBER 75 FOR ALL 16 TABLES. LET THE DESIRED VALUE FOR THE SECOND PARAMETER BE EQUAL TO THE UNIT NUMBER (0,1,2,...,15) EXCEPT FOR UNIT 12, WHICH SHOULD RECEIVE THE VALUE 11. LET THE DESIRED VALUE FOR THE THIRD PARAMETER BE THE NUMBER 76 FOR THE FIRST 7 UNITS AND THE NUMBER 77 FOR THE LAST 9 UNITS.

THE FOLLOWING DIALOGUE WOULD ACCOMPLISH THIS GOAL:

• UNITS (0) ? 16 UNIT 0 <QUESTION 1> ? 75 <QUESTION 2> ? 0-6 <QUESTION 3> ? 76

UNIT 7
<QUESTION 1> ?
<QUESTION 2> ? 7-11,,13-15
<QUESTION 3> ? 77

THE FIRST TIME THE SERIES IS ASKED, SLOT ONE RECEIVES A 75 IN ALL 16 TABLES. SLOT TWO RECEIVES THE VALUES 0,1,2,...,6 IN TABLES 0 THRU 6 AND A CONSTANT 6 IN TABLES 7 THRU 15. SLOT THREE RECEIVES A CONSTANT 76 IN ALL 16 TABLES.

THE SECOND TIME THRU THE SERIES, TABLES 7 THRU THE END ARE GOING TO BE AFFECTED (NOTE THAT THIS PIECE OF INFORMATION IS PRINTED OUT FOR THE THE OPERATOR IN THE FORM "UNIT XX" AT THE BEGINNING OF EACH SERIES). QUESTION 1 IS RESPONDED TO BY A <CR>, SO SLOT ONE STAYS AT CONSTANT 75 IN TABLES 7 THRU 15, SINCE NO NEW EXPLICIT VALUES ARE TYPED IN. SLOT TWO

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101101112	
726 727 728 729 730	GETS THE VALUES 7,8,9,10,11 IN TABLES 7 THRU 11, AND GETS AN 11 IN SLOT 12, AND GETS THE VALUES 13,14,15 IN TABLES 13 THRU 15. SLOT THREE GETS THE VALUE 77 IN TABLES 7 THRU 15.
730 731 732 733 734 735	THE DIALOGUE IS TERMINATED WHEN THE SOFTWARE RECOGNIZES THAT 16 EXPLICIT VALUES HAVE BEEN GIVEN FOR AT LEAST ONE QUESTION (NAMELY QUESTION 2).

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```
736
737
                             7.0 TEST DESCRIPTIONS
738
739
740
                             741
                                   TEST 1 <RX DATA FLUSHING TEST>
742
                             1.
743
                                IN BCP MODE/HALF DUPLEX IT IS DESIRABLE TO HAVE THE ABILITY TO FLUSH
                             ..
744
                                THE USYRT OF ITS CRC CHARACTERS. THIS FLUSHING IS ACCOMPLISHED BY WRITING
745
746
                                TO THE VIA SHIFT REGISTER.
747
                             14 THIS TEST VERIFIES THAT WHEN THE VIA SR IS WRITTEN INTO, 8 PULSES WILL
                                BE GENERATED AT THE CB1 PIN (WHICH DIRECTLY FEEDS THE CHARACTER FIFO).
748
749
                             750
751
752
753
754
755
756
757
758
759
                             TEST 2 (INTEGRAL MODEM INTERFACE TEST)
                                THE INTEGRAL MODEN IS SELECTED BY THE PROGRAM AND A MESSAGE IS
                                TRANSMITTED, RECEIVED, AND CHECKED USING A TURNAROUND CONNECTOR ON THE BOARD OR AT THE END OF A CABLE, THE FOLLOWING MESSAGE WILL BE
                                SENT IN BCP MODE WITH CRC-16 SPECIFIED:
760
761
                                   SYNC SYNC 000 125 252 377 000 CRC1 CRC2 SYNC
                             ..
762
763
                                IF THE P-TABLE FOR THE CURRENT UNIT INDICATES THAT NO EXTERNAL
                                TURNAROUND IS PROVIDED, THE TEST WILL BE SKIPPED FOR THAT UNIT.
764
765
                             766
767
                             768
769
                                   TEST 3 <DATA TEST -- BCP XLB CRC-16>
                             ..
770
771
                                IF XLB IS SPECIFIED IN THE P-TABLE, THIS TEST WILL TRANSMIT &
                             :.
                                RECEIVE IN BC, MODE WITH CRC-16 ERROR DETECTION THE FOLLOWING
772
773
                               MESSAGE:
                             ..
774
                             ..
775
                                   125 252 000 377 001 002 004 010 020 040 100 200 376 375 373 367
                             ..
                                  357 337 277 177
776
                             : .
777
                                THIS MESSAGE WILL BE PRECEDED BY 3 SYNC CHARACTERS AND REPEATED
778
                                THREE TIMES WITH CRC'S FOLLOWING EACH ONE. THE LAST TRANSMISSION OF
779
780
                                THE CRC WILL BE FOLLOWED BY SEVERAL SYNC CHARACTERS BEFORE DROPPING
                                TXE & RXE. 8-BIT CHARACTER LENGTHS ARE ALSO UTILIZED.
781
782
                             : IF XLB MAS NOT SPECIFIED (AND/OR BOARD TYPE IS M8064), THIS TEST MAY BE RUN
783
                             .. USING INTERNAL LOOPBACK (TTLOOP=1).
784
                             |
785
786
787
788
                             789
                                   TEST 4 <DATA TEST -- BCP XLB OOD VRC>
                             1.
790
791
                             IN IF XLB IS SPECIFIED IN THE P-TABLE, THIS TEST WILL TRANSMIT &
```

```
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                                  PROGRAM DOCUMENT
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CVDMEC.P11
                                  * RECEIVE IN BCP MODE WITH ODD VRC ERROR DETECTION THE FOLLOWING
                                     MESSAGE:
  793
                                  ..
  794
795
                                  1.
                                        125 252 000 377 001 002 004 010 020 040 100 200 376 375 373 367
                                  1.
                                        357 337 277 177
  796
                                  1.
  797
                                     THIS MESSAGE WILL BE PRECEDED BY 3 SYNC CHARACTERS AND REPEATED
  798
                                     THREE TIMES. AFTER THE LAST MESSAGE, SEVERAL SYNC CHARACTERS ARE SENT BEFORE DROPING TXE & RXE. 7-BIT CHARACTER LENGTHS ARE ALSO
  799
  800
                                     UTILIZED.
  801
  802
                                  10
                                  14 IF XLB WAS NOT SPECIFIED (AND/OR BOARD TYPE IS M8064), THIS TEST MAY BE RUN
  803
                                  10 USING INTERNAL LOOPBACK (TTLOOP=1).
  804
                                  805
  806
  807
                                  808
                                        TEST 5 <DATA TEST -- BCP XLB EVEN VRC>
  809
                                  ..
  810
                                  IN IF XLB IS SPECIFIED IN THE P-TABLE, THIS TEST WILL TRANSMIT &
  811
                                     RECEIVE IN BCP MODE WITH EVEN VRC ERROR DETECTION THE FOLLOWING
  812
                                  16
                                     MESSAGE:
  813
                                  :
  814
                                  ..
  815
                                  ..
                                        125 252 000 377 001 002 004 010 020 040 100 200 376 375 373 367
                                        357 337 277 177
  816
                                  1.
  817
                                     THIS MESSAGE WILL BE PRECEDED BY 3 SYNC CHARACTERS AND REPEATED
  818
                                  IN THREE TIMES. AFTER THE LAST MESSAGE, SEVERAL SYNC CHARACTERS ARE
  819
                                     SENT BEFORE DROPING TXE & RXE. 7-BIT CHARACTER LENGTHS ARE ALSO
  820
  821
822
823
824
825
826
827
828
829
                                  # UTILIZED.
                                  14 IF XLB WAS NOT SPECIFIED (AND/OR BOARD TYPE IS MB064). THIS TEST MAY BE RUN
                                  # USING INTERNAL LOOPBACK (TTLOOP=1).
                                  TEST 6 <DATA TEST -- BOP XLB CRC-CCITT-1>
                                  ..
                                  10
                                     IF XLB IS SPECIFIED IN THE P-TABLE, THIS TEST WILL TRANSMIT & RECEIVE IN BOP MODE WITH CRC-CCITT-1 ERROR DETECTION THE FOLLOWING
  831
  832
  833
                                     SHORT MESSAGE: 125 252 000 377 001
  834
  835
                                     THIS MESSAGE WILL BE PRECEDED BY FLAG CHARACTERS AND REPEATED
  836
                                     THREE TIMES WITH CRC AND FLAG'S FOLLOWING EACH ONE. 8-BIT CHARACTER
  837
                                  * LENGTHS ARE ALSO UTILIZED.
  838
                                  14 IF XLB WAS NOT SPECIFIED (AND/OR BOARD TYPE IS MB064), THIS TEST MAY BE RUN
  839
                                  * USING INTERNAL LOOPBACK (TTLOOP-1).
  840
  841
                                  842
843
  844
845
846
847
                                  ..
                                        TEST 7 <DATA TEST -- BOP XLB CRC-CCITT-0>
                                  IN IF XLB IS SPECIFIED IN THE P-TABLE, THIS TEST WILL TRANSMIT &
```

```
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                                   PROGRAM DOCUMENT
CVDMEC.P11
                                   1 RECEIVE IN BOP MODE WITH CRC-CCITT-0 ERROR DETECTION THE FOLLOWING
                                   1 SHORT MESSAGE: 125 252 000 377 001
  849
  850
                                      THIS MESSAGE WILL BE PRECEDED BY FLAG CHARACTERS AND REPEATED
  851
                                   ..
                                   1. THREE TIMES WITH CRC AND FLAG'S FOLLOWING EACH ONE, 8-BIT CHARACTER
  852
853
                                   I+ LENGTHS ARE ALSO UTILIZED.
  854
                                   : IF XLB WAS NOT SPECIFIED (AND/OR BOARD TYPE IS M8064). THIS TEST MAY BE RUN
  855
                                   * USING INTERNAL LOOPBACK (TTLOOP=1).
  856
  857
                                   858
  859
                                   860
                                          TEST 8 < MODEM CONTROL SIGNAL LOOPBACK TEST>
  861
                                   ..
                                   ..
  862
  863
                                   1. FIRST, THE DMV-11 IS INITIALIZED. THEN, TTL LOOPBACK IS SELECTED.
                                   IN AND THE FOLLOWING CHECKS ARE PERFORMED INVOLVING THE MODEM STATUS
  864
  865
                                   * REGISTER :
                                     - RING, CARRIER, MODEM READY, TEST MODE, CTS ARE CHECKED FOR 1 STATE. - RTS IS DE-ASSERTED AND CTS IS CHECKED FOR 0.
  866
867
                                     - RTS IS ASSERTED AND CTS IS CHECKED FOR 1.
  868
  869
                                   .. NEXT, IF THE OPTION IS AN MOOSS WITH AN H3254 TEST CONNECTOR INSTALLED.
  870
                                   * THE DMV-11 IN INITIALIZED AGAIN, (TTL LOOPBACK IS CLEARED), AND
  871
                                   * THE FOLLOWING CHECKS ARE PERFORMED :
  872
                                   . RING, CARRIER, MODEH READY, CTS ARE CHECKED FOR 1, TEST MODE IS CHECKED
  873
  874
                                         FOR O.
                                   . - RTS IS DE-ASSERTED, AND CARRIER AND CTS ARE CHECKED FOR O.
  875
                                   . - RTS IS ASSERTED, AND CARRIER AND CTS ARE CHECKED FOR 1.
  876
                                   . - DTR IS DE-ASSERTED, AND MODEM READY IS CHECKED FOR O.
  877
                                   . - DTR IS ASSERTED, AND MODEM READY IS CHECKED FOR 1.
  878
                                   879
  880
```

881

CVDMECO DMV11	LINE UNIT	DIAG3	MACY11	30A(1052)	12-JUL-84	11:12	PAGE 21
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TEST 9 < DOCMP MESSAGE TEST> 883 .. 884 THIS TEST WILL USE XLB IF IT IS ENABLED -- OTHERWISE TTL LOOPBACK WILL BE UTILIZED. THIS ASSURES THAT IT CAN ALWAYS BE RUN AS A GENERAL "RINGOUT" OF THE M8053. .. 885 .. 886 887 888 INITIALIZATION: BCP MODE, CRC-16, IDLE = 0, SYNC (S/AR) = 226 OCT. (96 HEX.), RXCL & TXCL = 0 (CHAR. LENGTH = 8). 889 890 891 THE FOLLOWING SAMPLE DOCHP MESSAGE IS TRANSMITTED & RECEIVED AND ALL .. 892 DATA AND CRC CHARACTERS ARE CHECKED FOR ERRORS: 893 894 895 896 897 ----- HEADER ----- --- DATA (PATTERN K) ----1* SYNC SYNC 201 000 075 003 002 001 CRC CRC 000 377 ... 252 000 CRC CRC THE ATTEMPT HERE IS TO PROVIDE A TEST JUST BELOW THE LEVEL OF THE FUNCTIONAL DIAGNOSTIC. THE USYRT WILL BE RESPONSIBLE FOR ALL CRC GENERATION AND VERIFICATION BUT THE CRC'S WILL ALSO BE VERIFIED BY 898 899 900 901 . SOFTWARE. 902 903 904 CVDMECO DMV11 LINE UNIT DIAGS MACY11 30A(1052) 12-JUL-84 11:12 PAGE 22 CVDMEC.P11 12-JUL-84 10:56 PROGRAM DOCUMENT

8.0 ERROR INFORMATION

8.1 ERROR REPORTING

ERRORS ARE REPORTED BY THE PROGRAM AS THEY OCCUR (IF NOT INHIBITED), THE REPORT CONFORMS TO THE DIAGNOSTIC SUPERVISOR ERROR REPORT FORMAT, AND CONSISTS OF A DESCRIPTION OF THE ERROR, THE TEST NUMBER, SUBTEST NUMBER, PC OF THE ERROR CALL, DEVICE ADDRESS, AND BASIC AND EXTENDED ERROR INFORMATION.

THE FOLLOWING EXAMPLE PROVIDES A TYPICAL ERROR REPORT, WHICH DESCRIBES A "MASTER CLEAR FAILURE" ERROR, AND PROVIDES THE PC OF THE ERROR CALL AND THE DEVICE REGISTER CONTENTS:

CVOME DVC FTL ERR 00001 ON UNIT 00 TST 002 SUB 000 PC: 021122 MASTER CLEAR FAILURE

THE CONTENTS OF ALL BYTE SELECT REG'S ARE:
BSELO BSEL1 BSEL2 BSEL3
000 000 000 000

BSEL4 BSEL5 BSEL6 BSEL7
000 000 121 000

BSEL10 BSEL11 BSEL12 BSEL13
000 000 000 000

BSEL14 BSEL15 BSEL16 BSEL17
000 000 000 000

FOR OTHER ERRORS, THE REPORT MAY BE MORE EXTENSIVE, AND REQUIRE ADDITIONAL DATA TO BE REPORTED.

IF EXTENDED ERROR INFORMATION HAD BEEN INHIBITED USING THE IXE FLAG PRIOR TO RUNNING THE TEST, THE ABOVE ERROR WOULD HAVE BEEN REPORTED IN THE FOLLOWING SHORTENED FORM:

CVDME DVC FTL ERR 00001 ON UNIT 00 TST 002 SUB 000 PC: 021122 MASTER CLEAR FAILURE

CVDMECO DMV11	LINE UNIT DIAGS MACY1	30A(1052) 12-JUL-84 11:12 PAGE 23 GENERAL EQUATES AND DS INVOCATION & SETUP
947 948		.SBTTL GENERAL EQUATES AND DS INVOCATION & SETUP
949 950 951 952	000000	HELP-0 : CONTROL LISTING OF HELP INFORMATION HELP-O NO LIST
953 954 955 956	002000	: HELP=1 LIST
957 958 00200 959	0	.MCALL SVC SVC ; INITIALIZE SUPERVISOR MACROS
960 961 00200 962 963	0	BGNMOD LU1MOD
964 965 966 967 968 969 970	000001 000001 000001 000001 000001 000001	#LSTIN= 1 #LSTTAG= 1 SVCINS= 1 : LIST INSTRUCTIONS, SHIFTED RIGHT SVCTST= 1 : LIST TEST TAGS, SHIFTED RIGHT SVCSUB= 1 : LIST SUBTEST TAGS, SHIFTED RIGHT SVCGBL= 1 : LIST GLOBAL TAGS, SHIFTED RIGHT SVCTAG= 1 : LIST OTHER TAGS, SHIFTED RIGHT
972 973 974 975		CHANGE THE VALUES OF THE SVC SYMBOLS TO BE ZERO IF YOU WISH TO ALIGN THE MACRO CALLS AND THEIR EXPANSIONS. CHANGE THE SYMBOLS TO BE MINUS-ONE TO NOT LIST THE EXPANSIONS. YOU MAY CHANGE THE SYMBOLS AT ANY POINT IN YOUR PROGRAM.

CVDMECO CVDMEC.	DMV11 P11	LINE UNIT	DIAG3 MACYI		2) 12-JU M HEADER	L-84	11:12	PAGE 2	4				SEQ 23
976				.SBTTL	PROGRAM	HEADE	ER						
977				100									
978 979 980				: THE					ACE BETWEEN UPERVISOR.				
981 982	002000				POINTER	BGNAL	J. BGNDU	, ERRTBL					
983	King all												
984 985	002000				HEADER	CVDM	E.C.0.1	50					
986	002000						.,,,,,,			L	SNAME::		
987	005000	103										ASCII	
988	002001	126										ASCII	/٧/
989	005005	104										ASCII	/D/
990	002003	115										ASCII	/H/
991	002004	105									.:	ASCII	
992	002005	000										SYTE	0
993	002006	000										SYTE	0
994 995	002007	000									FREV::	BYTE	0
996	002010	103										ASCII	/C/
997	002011	103									\$DEPO:	13011	,,,
998	002011	060										ASCII	/0/
999	002012	300								L	SUNIT::		
1000	002012	000000										JORD	0
1001	002014									L	STIML::		
1002	002014	000017		*								JORD	15.
997 998 999 1000 1001 1002 1003 1004 1005	002016									L	\$HPCP::		
1004	002016	033652										JORD	L\$HARD
1005	002020									L	SPCP::	1000	
1006	002020	000000									SHPTP::	JORD	0
1007 1008	002022											JORD	LSHM
1009	002024	002130								1	SPTP::	UNU	CVIIII
1010	002024	000000									.1	HORD	0
1010	002024 002026	-								L	\$LADP::		
1012	002026	034514									.1	HORD	L\$LAST
1012 1013 1014 1015 1016	002030									L	STA::		
1014	002030	000000										HORD	0
1015	002032									L	*CO::	1000	
1016	002052	000000									ADTYD.	HORD	0
1017	002034	000000									*DTYP::	MORD	0
1019	002036	000000								1	SAPT::	NUNU	•
1020	002036	000000										HORD	0
1021	002040	00000								L	SDTP::		
1022	002040	002124									.1	HORD	L\$DISPATCH
1023	002042									L	*PRIO::		
1024	002042	000000										HORD	0
1025	002044									L	*ENVI::		
1026	002044	000000										HORD	0
1027	002046	000000									\$EXP1::	-000	^
1026	002046	000000									MREV:	MORD	0
1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030	002050	003										BYTE	CAREVISION
1031	002051											STE	CIEDIT
		300											

CVDMEC.	DMV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052 PROGRAM) 12-JUL-84 HEADER	11:12	PAGE	25			SEQ 24
1032	002052									L#EF::	11000	
1033	002052	000000									WORD	0
1034	002054	000000								L#SPC::	WORD	0
1034 1035 1036 1037	002056 002056 002056 002060	000000									WORD	0
1037	002060	000000								L#DEVP::		•
1038	002060	003264									WORD	L\$DVTYP
1038 1039	002062	2								L\$REPP::		
1040	002062	2 000000									WORD	0
1041	002064									L\$EXP4::		
1042	002064	000000								L#EXPS::	WORD	0
1043 1044	002066	000000									WORD	0
1045	002070	000000								L#AUT::	WORLD	•
1046	002070	023230									HORD	L\$AU
1047	002072	2								L#DUT::		
1048	002072	2 023224									MORD	L#DU
1049	002074									L\$LUN::		
1050	002074	000000								I ADECD	WORD	0
1051	002076	003304								L#DESP::	WORD	L#DESC
1052 1053 1054 1055	002100	003304								L#LOAD::	MUNU	LIVESC
1054	002100	104035									TME	E\$LOAD
1055	002102	201005								LIETP::		
1056	002102	002172									WORD	L#ERRTBL
1056 1057	002104									L\$ICP::		
1058	002104	022554									WORD	L#INIT
1059	002106									L#CCP::		
1060	002106	023222								1 4400	WORD	L\$CLEAN
1061	002110	002076								L#ACP::	MOOD	LANITO
1062 1063	002110	023076								L#PRT::	WORD	L#AUTO
1064	002112	022546									MORD	L#PROT
1065	602114	L								L.\$TEST::	MOND	CVI NO.
1066	002114	000000									MORD	0
1067	002116	5								L\$DLY:		
1068	002116	000000									WORD	0
1069	002120)								LSHIME::		
1070	002120	000000									WORD	0
1071												
1072					EVEN							
1073					.EVEN							

CVDMECO DMV11 LINE UNI	T DIAG3 MACY11 30A(1052) 12-JUL-84 11:12 PAGE 26 10:56 DISPATCH TABLE	SEQ
1074 1075 1076 002122 1077 1078 1079 1080 002122 1081 1082 1083 002122 1084 002122 000011 1085 002124 1086 002124 023232 1087 002126 023532 1088 002130 026236 1089 002132 027114 1090 002134 027656 1091 002136 030420 1092 002140 031102 1093 002142 031564 1094 002144 032530	SLASH I THE DISPATCH TABLE CONTAINS THE STARTING ADDRESS OF EACH TEST. I TI IS USED BY THE SUPERVISOR TO DISPATCH TO EACH TEST. SLASH I MORD TO MO	3

CVDMECO CVDMEC.	DMV11 P11	LINE UNIT 12-JUL-84	30A(1052) DEFAULT H	12-JUL ARDWARE	-84 11:12 P-TABLE	PAGE 27			SEQ 26
1096			.SBTTL DE	EFAULT	HARDWARE F	-TABLE			
1097 1098 1099 1100 1101 1102			/ THE DEF	FAULT H ST-DEVI NTICAL	MARDWARE PARAMET TO THE STA	TABLE CONTAINS DEFAU TERS. THE STRUCTURE RUCTURE OF THE RUN-TI	LT VALUES OF OF THIS TABLE ME P-TABLE.		•
1103 1104 1105 1106 1107	002146 002146 002150 002150	000010	B	GNHU	DFPTBL		L\$HW:: DFPTBL:	. WORD	L10000-L\$HM/2
1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119	002150 002154 002156 002160 002166 002166	000300 004000 000000 000000 000000		MORD MORD MORD MORD MORD MORD MORD MORD	300 4000 000 000 0 0	SWITCH REG. #	PT VECTOR PT PRIORITY LEVEL 1 (BOOT ADDRESS) 2 (DOCMP ADDRESS) 64 SED 6 K 9.2 K		
1120	002170		E	NDHW			L10000:		

			B	3			660.07
CVOMECO DMV11 LT	THE UNIT DIAGS HACYLE	SOFTWARE P-TABLE	4 11:12	PAGE 26			SEQ 27
1122		.SBTTL SOFTWARE P	-TABLE				
1124 1125 1126 1127		/ THE SOFTWARE P-1 / PARAMETERS THAT	CAN BE CH	AINS TH	E VALUES OF THE PR	ROGRAM	
1131 002172	000000	BGNSW SF	PTBL			LISM:: SFPTBL::	RD L10001-L\$SW/2
1132 002172						377100::	
1134 002172 1135 002172		ENDSW				L10001:	

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CVDMECO DMV11 LINE UNIT DIAGS
                                      GLOBAL EQUATES SECTION -- BASIC EQUATES
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CVDMEC.P11
                                      SBITL GLOBAL EQUATES SECTION -- BASIC EQUATES
 1136
 1137
  1138
                                      1139
                                             THE GLOBAL EQUATES SECTION CONTAINS PROGRAM EQUATES THAT
                                      1/
  1140
                                             ARE USED IN MORE THAN ONE TEST.
  1141
                                      1142
  1143
                                             EQUALS
       002172
  1144
  1145
                                      BIT DIFINITIONS
  1146
  1147
                                      BIT15-- 100000
               100000
  1148
                                      BIT14-- 40000
               040000
  1149
                                      BIT13-- 20000
               020000
  1150
                                      BIT12 -- 10000
  1151
               010000
                                      BIT11 -- 4000
               004000
  1152
               002000
                                      BIT10-- 2000
  1153
                                      BIT09-- 1000
  1154
               001000
                                      BIT08-- 400
  1155
               000400
                                      BIT07-- 200
  1156
               000200
                                      BIT06-- 100
  1157
               000100
                                      BIT05 -- 40
  1158
               000040
                                      BIT04 -- 20
  1159
               000020
                                      BIT03-- 10
               000010
  1160
                                      BIT02 -- 4
  1161
               000004
               000002
                                      BIT01 -- 2
  1162
                                      BIT00-- 1
  1163
               000001
  1164
                                      BIT9 -- BIT09
  1165
               001000
                                      BITS-- BITOS
  1166
               000400
  1167
               000200
                                      BIT7-- BIT07
                                      BIT6-- BIT06
  1168
               000100
                                      BITS -- BITOS
  1169
               000040
                                      RIT4-- BITO4
  1170
               000020
                                      BITS -- BITOS
               000010
  1171
                                      BIT2-- BITO2
               000004
  1172
                                      BIT1 -- BITO1
               000002
  1173
                                      BITO-- BITOO
               000001
  1174
  1175
                                      : EVENT FLAG DEFINITIONS
  1176
                                      : EF32:EF17 RESERVED FOR SUPERVISOR TO PROGRAM COMMUNICATION
  1177
  1178
                                                                                    : START COMMAND WAS ISSUED
                                      EF.START ..
  1179
               000040
                                                     31.
                                                                                    I RESTART COMMAND WAS ISSUED
                                      EF .RESTART ..
  1180
               000037
                                                                                    I CONTINUE COMMON WAS ISSUED
                                                     30.
                                      EF.CONTINUE ..
               000036
  1181
                                                                                    A NEW PASS HAS BEEN STARTED
                                      EF.NEW ..
                                                     29.
  1182
               000035
                                                                                    A POMER-FAIL/POMER-UP OCCURRED
                                      EF .PUR ..
                                                     28.
               000034
  1183
  1184
  1185
                                      1 PRIORITY LEVEL DEFINITIONS
  1186
  1187
                                      PRI07 -- 340
               000340
  1188
                                      PRI06 -- 300
               000300
  1189
               000240
                                      PRI05 -- 240
  1190
                                      PRI04 -- 200
               000200
  1191
```

CVDMECO DMV11	LINE UNIT DIAGS	MACY11 30A(1052) 12-JUL-84 11:12 PAGE 30
CVDMEC.P11	12-JUL-84 10:56	GLOBAL EQUATES SECTION BASIC EQUATES
1192	000140	PRIO3 140
1193	000100	PRIO2 100
1194	000040	PRIO1 40
1195	000000	PRIO0 0
1196 1197 1196		OPERATOR FLAG SITS
1199	000004	EVL 4
1200	000010	LOT 10
1201	000020	ADR 20
1202	000040	IDU 40
1203	000100	ISR 100
1204	000200	UAM 200
1205 1206	000400 001000	BOE 400 PNT 1000 PRI 2000
1207 1208 1209	002000 004000 010000	IXE 4000 IBE 10000
1210	020000	IER 20000
1211	040000	LOE 40000
1212	100000	HOE 100000

CVDMECO DMV11 CVDMEC.P11	LINE UNIT 12-JUL-84		30A(1052) 12-JUL-84 11:12 PAGE 31 REGISTER DEFINITIONS MAINTENANCE REGISTERS SELN & BSELN
1213 1214			.SBTTL REGISTER DEFINITIONS MAINTENANCE REGISTERS SELN & BSELN
1215 1216			** MAINTENANCE REGISTER * 0 - BSELO
1217	000000		IEO - BIT4 ;"INTERRUPT ENABLE OUT"
1218 1219	000020		IEO - BIT4 ;"INTERRUPT ENABLE OUT" IEI - BITO ;"INTERRUPT ENABLE IN"
1220	000001		121 - 0210 , INTERNOT I CIUCCE IN
1221			# BIT 7 IS ALSO USED BY THE MICROCODE. ITS LABEL IS "RQI" WHICH STANDS FOR "REQUIST IN". IT'S PART OF THE HANDSHAKING FOR USING THE SEL & BSEL REG'S.
1221			"REQUIST IN". IT'S PART OF THE HANDSHAKING FOR USING THE SEL & BSEL REG'S.
1223			HOMEVER, THE MAINT, LOOP DOES NOT MAKE USE OF THIS BIT AND IT IS THEREFORE UNNECESSARY TO DEFINE IT HERE.
1224			; UMECESSART TO DEPTHE IT HERE.
1225			;;••••••••••••••••••••••
1223 1224 1225 1226 1227 1228			* MAINTENANCE REGISTER # 1 - BSEL1
1226			
1229	000200		RUN - BIT7 ; "RUN" & ALSO CONTROLS 6502 MICROPROCESSOR'S RDY STATE MCLR - BIT6 ; MASTER CLEAR MREQ - BIT0 ; M-LOOP ACCESS
1230	000100		MCLR - BIT6 ;MASTER CLEAR
1231 1232	000001		HREQ - BITO :M-LOOP ACCESS STRTMLOP- RUN!MCLR!MREQ :INITIATE M-LOOP
1233	000301		SINITED - NONTINEE TANKE TANKE TI-EOU
1234			;;•••••••••••••••••••••
1235			* MAINTENANCE REGISTER # 2 - BSEL2
1236		,	110000000000000000000000000000000000000
1237	000200		MRDY - BIT7 ;M-LOOP READY
1238 1239			; *************************************
1240			* MAINTENANCE LOOP COMMAND DEFINITIONS
1241			
1242	200001		REDLOC = 1 READ LOC. W/IN DMV-11 (SEL4) ===> BSEL6
1243	000002		WRILOC = 2 WRITE LOC. W/IN DMV-11 BSEL6 ===> (SEL4) REDPAG = 3 READ BLOCK W/IN DMV-11 (SEL4) ===> (SEL4) WRIPAG = 4 WRITE BLOCK W/IN DMV-11 (SEL4) ===> (SEL6) EXECUT = 5 SET 6502'S PC AND EXECUTE SEL6 ===> PC
1244	000003		REDPAG = 3 READ BLOCK W/IN DMV-11 (SEL6) ===> (SEL4)
1245	000004		WRIPAG = 4 :WRITE BLOCK W/IN DMV-11 (SEL4) ===> (SEL6) EXECUT = 5 :SET 6502'S PC AND EXECUTE SEL6 ===> PC
1246 1247	000005		DOTBHT • 7 SET 6502'S PC AND EXECUTE SEL6 *** PC
1248	000007		STATUS (KB7) ==> BSEL3
1249			Total of the Cart

CVDMECO DMV13	LINE UNIT DIAGS 12-JUL-84 10:56	MACY11 30A(105	2) 12-JUL-84 ER DEFINITIONS	11:12 PAGE 32	SEQ 31
	15-201-04 10:30				
1250 1251		.SBTTL	REGISTER DEF	INITIONS USYRT	
1252 1253	120400	USYRT	- 120400	USYRT BASE ADDRESS - A100 (HEX)	
1254 1255		110000	**********	****************************	**************
1256				ATA BUFFER" REGISTER READ ONLY	
1257		110000	*********	***************************************	•••••
1258 1259	120400	RDSRL	- 120400	ADDRESS OF THIS REG	
1260				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1261		110000	**********	*****************************	**************
1262		I* USY	RT "RECEIVER S	TATUS" REGISTER READ ONLY	
1263		110000	**********	••••••	***************************************
1264 1265	120401	RDSRH	- 120401	ADDRESS OF THIS REG	
1266	150401	nosm.	250402	Thomas or mas neo	
1267				IONS ON BYTE BASIS :	
1268	000200	RERR	- BIT7	ERROR CHECK	
1269	000160	ABC	- BIT6:BIT5	BIT4 ASSEMBLED BIT COUNT	
1270	000010 000004	ROR RABGA	- BIT3 - BIT2	RECEIVER OVER RUN RECEIVED ABORT/GA CHARACTER	
1271 1272	000002	REOM	- BIT1	RECEIVED END-OF-MESSAGE	
1273	000001	RSOM	- BITO	RECEIVED START-OF-HESSAGE	
1274					
1275				IONS ON WORD BASIS :	
1276	100000	RXERR	- BIT15	RECEIVED CRC/VRC ERROR	
1277 1278	004000	RXOR RXABGA	- BIT11 - BIT10	RECEIVER OVER RUN RECEIVED ABORT/GO AHEAD CHARACTER	
1279	001000	RXEOM	- BIT9	RECEIVED END-OF-MESSAGE	
1280	000400	RXSOM	- BITS	RECEIVED START-OF-MESSAGE	
1261					
1282	000001	RERCHK	- BITO	FLAG TO INVOKE RERR CHK IN SUBROU	TINE RXCHAR
1263 1264				***************************************	
1265				R DATA BUFFER" REGISTER	
1286				*************************	***************
1267					
1268	120402	TDSRL	- 120402	ADDRESS OF THIS REG	
1290			******	***************************************	**************
1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300		I USY	RT "TX STATUS	AND CONTROL" REGISTER	
1292		110000	*********	****************************	***************
1293				***************************************	
1294	120403	TDSRH	- 120403	ADDRESS OF THIS REG	
1296			BIT DEFINIT	IONS ON BYTE BASIS :	
1297	000200	TERR	- BIT7	TRANSMITTER UNDERRUN ERROR	
1296	000010	TGA	- BIT3	TRANSMIT GO AHEAD	
1299	000004	TAB	- BIT2	TRANSMIT ABORT	
1300	000002	TEOM	- BIT1	TRANSMIT END-OF-MESSAGE	
1301 1302	000001	TSOM	- BITO	TRANSMIT START-OF-MESSAGE	
1303			BIT DEFINIT	IONS ON WORD BASIS :	
1304	100000	TXERR	- BIT15	TRANSMITTER UNDERRUN ERROR	
1305	004000	TXGA	- BIT11	TRANSMIT GO AHEAD	

CVDMECO DMV11 CVDMEC.P11	LINE UNIT DIAGS 12-JUL-84 10:56	MACY11 30A(1052) 12-JUL-84 11:12 PAGE 33 REGISTER DEFINITIONS USYRT
1306	002000	TXAB - BIT10 ;TRANSMIT ABORT
1307	001000	TXAB = BIT10 ; TRANSMIT ABORT TXEOM = BIT9 : ; TRANSMIT END-OF-MESSAGE
1308	000400	TXSOM - BIT8 TRANSMIT START-OF-MESSAGE
1309		
1310		::
1311		* USYRT "SYNC/SECONDARY ADDRESS" REGISTER
1312		;;*************************************
1313		
1314	120404	PCSARL - 120404 ; ADDRESS OF THIS REG SYNCH - 226 ; STANDARD SYNCH CHARACTER
1315	000226	SYNCH = 226 ;STANDARD SYNCH CHARACTER
1316		
1317		;;*************************************
1318		1 USYRT "HODE CONTROL"
1319		;;*************************************
1320		
1221	120405	PCSARH = 120405 ; ADDRESS OF THIS REG
1322		
1323		BIT DEFINITIONS ON BYTE BASIS:
1324		
1325	000200	APA - BIT7 ;"ALL PARTIES ADDRESS" ENABLE
1326	000100	PROTO - BIT6 SPECIFIES BOP/CCP PROTOCOL 0 - BOP
1322 1323 1324 1325 1326 1327 1328	000040	PROTO = BIT6 SPECIFIES BOP/CCP PROTOCOL 0 = BOP STRIP = BIT5 STRIP EXTRA SYNC'S IN CCP MODE, SEE GA CHARS IN BOP SECAD = BIT4 SECONDARY ADDRESS MODE BOP MODE ONLY IDLE = BIT3 IDLE & SYNC CHAR, TRANSMISSION CONTROL
1326	000020	SECAD - BIT4 SECONDARY ADDRESS HODE BOP HODE ONLY
1329	000010	IDLE - BITS IDLE & SYNC CHAR. TRANSMISSION CONTROL
1330	000007	XYZ - BIT2:BIT1:BIT0 ; CRC/PARITY SELECTION CONTROL
1331		ADD ADDRESS AND AND ADDRESS AN
1332		BIT DEFINITIONS ON WORD BASIS:
1333		4040 - 07745 #44 0407756 4005566# 544045
1334	100000	APAD - BIT15 :"ALL PARTIES ADDRESS" ENABLE
1335	040000	DOCHP - BIT14 CODE FOR DOCHP HODE STRIPS - BIT13 STRIP EXTRA SYNC'S IN CCP HODE, SEE GA CHARS IN BOP
1336	020000	STRIPS - BIT13 STRIP EXTRA SYNC'S IN CCP MODE, SEE GA CHARS IN BOP SECADR - BIT12 SECONDARY ADDRESS MODE BOP MODE ONLY
1337 1338	010000 004000	SECADR - BIT12 ;SECONDARY ADDRESS MODE BOP MODE ONLY IDLES - BIT11 ;IDLE & SYNC CHAR. TRANSMISSION CONTROL
1339	000400	CRCOS - BITS CODE FOR CRC-CCITT-0 SELECTION
1340	001400	CRC16 - BIT9:BIT8 CODE FOR CRC-16 SELECTION
1341	003400	CRC16 - BIT9:BIT8 ; CODE FOR CRC-16 SELECTION NOCHK - BIT10:BIT9:BIT8 ; CODE FOR NO ERROR CHECKING EVRC - BIT10:BIT8 ; CODE FOR VRC EVEN CHECK
1342	002400	EVRC - BIT10:BIT8 :CODE FOR VRC EVEN CHECK
1343	002000	OVRC - BIT10 CODE FOR VRC ODD CHECK
1344	002000	DANC - BILLO ICODE LOW AND GOOD CHECK
1345		::
1346		USYRT "DATA LENGTH SELECT" REGISTER
1347		
1348		
1349	120407	PCR = 120407 ;ADDRESS OF THIS REG
1350	220.01	
1351		BIT DEFINITIONS:
1352		
1353	000340	TXDL - BIT7:BIT6:BIT5 ; TRANSMIT DATA LENGTH SELECTION
1354	000020	EXADD - BIT4 LEXTENDED ADDRESS FIELD NOT USED OR TESTED
1355	000010	EXCON - BIT3 EXTENDED CONTROL FIELD NOT USED OR TESTED
1356	000007	RXDL - BIT2:BIT1:BITO : RECEIVER DATA LENGTH SELECTION
1357		
1356		;;*************************************
1359		# USYRT STATUS REGISTER (ADDR. A400)
1360		;;*************************************
1361	122000	ÚSTATR = 122000 ;USYRT STATUS REGISTER ADDRESS = A400 (HEX)

CVDMEC.P11	LINE UNIT 12-JUL-84		12-JUL-84 DEFINITIONS	11:12 PAGE 34 USYRT
1362 1363			BIT DEFINIT	CONS:
1364 1365 1366	000200	TBMT	- BIT7 - BIT6	RECEIVER DATA AVAILABLE TRANSMITTER BUFFER EMPTY
1367 1368	000040	RSA	- BIT5 - BIT4 - BIT3	RECEIVER ACTIVE RECEIVER STATUS AVAILABLE TRANSMITTER SERIAL OUTPUT
1369 1370 1371	000010 000004 000002	TXACT	- BIT2 - BIT1	TRANSMITTER ACTIVE
1372	000001	SFR	- BITO	SYNC/FLAG RECEIVED

				SEQ 34
CVDMECO DMV11 CVDMEC.P11	12-JUL-84 10:5	MACY11 30A(10 REGIS	TER DEFINITIONS	11:12 PAGE 35 S 6522 VIA CHIP
1373		.SBTT	L REGISTER DEF	FINITIONS 6522 VIA CHIP
1374 1375	120000	VIA	- 120000	:VIA BASE ADDRESS = A000 (HEX)
1376	220000			
1377		11000	***********	***************************************
1378				NCE CONTROL "ORB" 8 BIT PORT B WRITE ONLY
1379		11000	***********	***************************************
1380	120000	VTACE	9 - 120000	ADDRESS OF THIS REGISTER HEX = AOXO
1381 1382	150000	Vanon	P - 150000	INDUIESS OF THIS REGISTER HEY - MONO
1383	000200	NULCL	K - BIT7	"NULL CLK L" NULL CLOCK
1384	000100	RXEN	- BIT6	"RXEN"." USYRT RECEIVER ENABLE
1385	000040	TXEN	- BITS	"TXENL" USYRT TRANSMITTER ENABLE
1386	000020	DTR		"DTR" DATA TERMINAL READY
1387	000010	RTSND		"RTSND" REQUEST TO SEND
1388	000004	HDX		"HDX" HALF DUPLEX
1389	000002		P - BIT1	"SELECT TTL LEVEL LOOPBACK"
1390	000001 000000	PRESE	T - BITO	PRESET H" DTR IS ASSERTED LOW
1391 1392	000000	DINL	- 0	IDIN 15 ASSERIED LOW
1393			*****	***************************************
1394		10 MO	DEM STATUS REGI	ISTER "ORA" 8 BIT PORT A READ ONLY
1395		11000	********	**************************************
1396				
1397	120001	VIAMS	- 120001	ADDRESS OF THIS REGISTER HEX = AOX1
1398				
1399	000200	RING	- BIT7	; "RING H"
1400	000100	CARIE		"CARRIER H"
1401	000040	MDMRD SPEED		"MODEM RDY H" "BAUD RATE SWITCH (19,2K/56K)
1402 1403	000020 000010	CTS	- BIT3	"CTS H CLEAR TO SEND
1404	000004	TM	- BIT2	"TEST HODE H"
1405	000002	RCVDA		"RCV DATA H"
1406	000001	UMAIN		SELECT USYRT INT LOOPBACK **SELECT BIT**
1407				
1408				
1409		11000	******	OR PORT B "DORB" READ/WRITE
1410		I+ DA	TA DIRECTION FO	OR PORT B "DORB" READ/WRITE
1411		11000	***********	•••••••••
1412 1413	120002	VTADO	8 - 120002	ADDRESS OF THIS REGISTER HEX = AOX2
1414	150005	41.0	9 - 150005	INDUNESS OF THES REGISTER TO HEAT THORE
1415		. AL	L BITS ARE DEFT	INED THE SAME:
1416			THE BIT SETT	TING DEFINED THE DIRECTION OF ITS RELATED BIT IN BIT PORT B
1417				
1418			INITIALIZED	TO 377 (HEX = FF) PORT B IS READ/WRITE
1419				
1420				
1421		11000	TA DIDECTION E	OR PORT A "DORA" READ/WRITE
1422 1423				ON PORT N DOWN KENDAMILE
1424		11000		
1425	120003	VIADP	A - 120003	ADDRESS OF THIS REGISTER HEX - AOX3
1426				
1427		; AL	L BITS ARE DEFT	INED THE SAME:
1428		1	THE BIT SETT	TING DEFINED THE DIRECTION OF ITS RELATED BIT IN BIT PORT A

CVDMECO DMV11 CVDMEC.P11	LINE UNIT 12-JUL-84	DIAG3 MACY11 10:56	30A(1052) REGISTER	12-JUL DEFINIT	-84 11:12 IONS 652	PAGE 36 2 VIA CHIP			SEQ 35
1429 1430 1431 1432 1433			!	INITIALI	ZED TO 001	(HEX = 01) P(BITO WHICH	ORT A IS READ ENABLES USYR	ONLY (EXCEPT F T INTERNAL LOOP	OR BACK).
1434 1435 1436 1437			. TIMER	1 LOW O	RDER (LATCH	& COUNTER)	"T1L-L" & "T1	C-L" WRITE &	READ
1438 1439	120004		VIATIA	- 120004		ADDRESS OF	THIS REGIST	ER HEX = AOX	(4
1440 1441 1442 1443 1444						LATCH IS LOADED. COUNTER IS READ.			
1445 1446 1447 1448 1449			I TIMER	1 HIGH	ORDER COUNT	ER & TRIGGER	"T1L-H AND T	RIGGER" & "T1C-	.H"
1450 1451	120005		VIAT1B	- 120005		ADDRESS OF	THIS REGIST	ER HEX = A0X	(S
1452 1453 1454					HIGH ORDER	LATCH IS LOADED			
1455 1456 1457 1458			; WHEN	READING.	THE HIGH O	RDER COUNTER IS	READ.		
1459 1460 1461 1462			# TIMER	1 LOW O	RDER LATCH	"T1L-L" RE	EAD/WRITE		
1463 1464	120006		VIATIC	- 120006		; ADDRESS OF	F THIS REGIST	ER HEX = A0	(6
1465 1466 1467 1468 1469			: THE L	OW ORDER ER WHEN	LATCH IS R T1MODE (IN	EAD OR LOADED. VIAACR) = 3	THIS LATCH I	S USED TO LOAD	THE
1470 1471 1472 1473			14 TIMER	1 HIGH	ORDER LATCH	"T1L-H" I	READ/WRITE		
1474 1475	120007		VIAT1D	- 120007		ADDRESS OF	F THIS REGIST	ER HEX - AO	(7
1476 1477 1478 1479 1480 1481			: THE H	IIGH ORDE ER MHEN	R LATCH IS TIMODE (IN	READ OR LOADED. VIAACR) = 3	THIS LATCH	IS USED TO LOAD) THE
1482 1483 1484			I TIMER	2 LOW 0	RDER (LATCH	& COUNTER)	"T2L-L" & "T2	C-L" WRITE (S READ 3

CVDMECO DMV11 CVDMEC.P11	LINE UNIT DIAGS 12-JUL-84 10:56		2) 12-JUL-84 11 ER DEFINITIONS		SEW SE
1485 1486	120010	VIATA	- 120010	ADDRESS OF THIS REGI	STER HEX = AOX8
1487 1488 1489 1490 1491		: WE	N WRITING, LOW OR	DER LATCH IS LOADED. DER COUNTER IS READ.	
1492 1493 1494 1495 1496		14	WRITE & READ	DUNTER & TRIGGER "T2L-H AND	
1497 1498	120011	VIAT28	- 120011	ADDRESS OF THIS REGI	STER HEX = AOX9
1499 1500 1501		; WE		RDER LATCH IS LOADED, BOTH LOW ADED INTO THE COUNTER, AND THE	
1503		; WE	N READING, THE HI	GH ORDER COUNTER IS READ.	
1502 1503 1504 1505 1506 1507		I+ SHI	FT REGISTER "SI	R" READ/WRITE	
1508 1509	120012	VIASR	- 120012	ADDRESS OF THIS REGI	STER HEX = AOXA
1510 1511 1512 1513 1514 1515		::0000	******	ED BY THE SETTING OF VIASRC (A	
1516 1517				GISTER "ACR" READ/WRITE	***************************************
1518 1519 1520	120013	VIAACE	- 120013	ADDRESS OF THIS REGI	STER HEX = AOXB
1521	000300	TIMODE	- BIT7:BIT6	CONTROL THE MODE OF	TIMER # 1
1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540			:8IT 7: : 0 : 1	PB7 DISABLED ONLY TITO IN PB7 & TITO REFLECT TIMEOUT	VIAIFR REFLECTS TIMEOUT
1527 1528 1529			:8IT 6: : 0 : 1	TIMER 1 IN ONE-SHOT MODE TIMER 1 IN CONTINUOUS SQUARE	WAVE MODE
1531	000040	T2H008	- BITS	CONTROLS THE MODE OF	TIMER # 1
1532 1533 1534			: 0	PULSE COUNTING MODE INTERVAL TIMER MODE	
1536	000034	SRMODE	- BIT4:BIT3:BIT	2 CONTROLS THE MODE OF	THE SHIFT REGISTER
1537 1538 1539 1540			: 1	SR DISABLED SHIFT IN UNDER CONTROL OF T2. SHIFT IN AT SYS. CLOCK RATE,	SHFT PULSES GEN'D ON CB1

CVDMECO DMV11	LINE UNIT DI		12-JUL-84 11 DEFINITIONS			•• .		SEU 37
1541 1542 1543 1544 1545			: 3 : 4 : 5 : 6 : 7	SHIFT OU SHIFT OU SHIFT OU	T FREE R T RATE (T SYS. (RUNNING RA CONTROLLED BY CLOCK RATE	NAL INPUT PULSES TE CONTROLLED BY T2 PULSES ON PULSES ON CB1 ULSES APPLIED TO	CB1
1546 1547 1548 1549 1550	000002	PBLENB	- BIT1 - BITO		PB LATCH C	CONTROL 1	ENABLES LATCH ENABLES LATCH	
1550 1551 1552 1553 1554 1555 1556			HERAL CONTROL R	EGISTER -	- "PCR"	READ/WRITE	************	
1557	120014	VIAPCR	- 120014		ADDRESS OF	THIS REGIST	ER HEX = AOXC	
1558 1559 1560 1561 1562 1563 1564 1565	000340 000020 000016 000001	CB1CTL CA2CTL	- BIT7:BIT6:BIT - BIT4 - BIT3:BIT2:BIT - BIT0	1	CB2 MODE S CB1 MODE S CA2 MODE S CA1 MODE S	SELECT SELECT		
1565 1566 1567 1568 1569		I INTER	RUPT FLAG REGIS	TER "I	FR" READ	ONLY	************	******
1570	120015	VIAIFR	- 120015		ADDRESS OF	THIS REGIST	ER HEX - AOXD	
1571 1572 1573 1574 1575 1576 1577	000200	FLGIRQ	- BIT7		ITS CORRES	SPONDING BIT TER IS THE EN ETTING OF IRQ	S REG. GOES HIGH IN VIAIER IS SET. ABLE REGISTER FOR AND THE ISSUEAND O2 WHEN IRQ IS SE	R THE CE OF
1578 1579 1580 1581 1582 1583 1584 1585 1586	000100 000040 000020 000010 000004 000002 000001	FLGCB1 FLGCB2 FLGSR FLGCA1	- BIT6 - BIT5 - BIT4 - BIT3 - BIT2 - BIT1		COMPLETION ACTIVE TRA	TIMER 1 TIMER 2 WASITION OF P WASITION OF P OF 8 SHIFTS WASITION OF P WASITION OF P	IN 19 (CB2) IN 40 (CA1)	
1587 1588 1589 1590 1591		I INTER	RUPT ENABLE REG	ISTER	"IER" RE	EAD/WRITE	************	
1592 1593	120016	VIAIER	- 120016		ADDRESS OF	THIS REGIST	ER HEX = AOXE	
1594 1595 1596	000200	INTSC	- BIT7		THE REST (OF IER. IF .	R CLEARING OF BIT O THE OTHER BIT L CLEAR THEIR RES	TS IN

CVDMEC.P11	LINE UNIT 12-JUL-84	DIAG3 10:56		12-JUL-84 DEFINITIONS			
1597						BITS	IN T

1597 1598 1599 1600 1601		BITS IN THE INT. ENAB. REG IF = 1. RESPECTIVE BITS WILL BE SET. : WHEN WRITING THIS REG., THE COMMENT ABOVE HOLDS.	THE
1602		; WHEN READING THIS REG., THE CURRENT STATE OF THE INT. ENABLE REG. IS	RETURNED.
1603 1604 1605 1606		; THE BIT ASSIGNMENTS ARE THE SAME AS FOR VIAIFR AS DEFINED ABOVE.	
1607 1608 1609 1610 1611		: OUTPUT REGISTER A "ORA" READ ONLY (OR READ/WRITE UNDER CONTROL	
1612	120017	VIAORA - 120017 ;ADDRESS OF THIS REGISTER HEX - AOXI	F
1613 1614 1615 1616 1617		THIS ADDRESS ACCESSES THE SAME DATA AS "VIAMS" EXCEPT THAT NO "HANDS WILL TAKE PLACE (I.E. THERE IS NO CHANGE IN IRQ OR CA2 AS A RESULT (READING ORA THROUGH THIS ADDRESS)	
1618 1619 1620 1621		THE BIT ASSIGNMENTS ARE THE SAME AS FOR "VIAMS" ABOVE.	

CVDMECO DM	V11 LINE UNIT DIAG3 12-JUL-84 10:56	MACY11 30A(1052) 12-JUL-84 REGISTER DEFINITIONS	11:12 PAGE 40 MISC
1622 1623		.SBTTL REGISTER DEF	INITIONS MISC
1624 1625		: SWITCH PACKS	*************************************
1626		:: ****************************	***************************************
1627 1628	121000	SMPBOT - 121000	"BOOT ADDRESS" SWITCH PACK [A200]
1629	121400	SWPDDCHP = 121400	"DOCHP ADDRESS" SWITCH PACK [A300]
1630			
1631		MISCELLANEOUS EQUAT	ES
1632		200,54	FI AC TO DECUEST UTOPA E OUFOU
1633	100000	TCCHEK = BIT15 RAMADR = 001000	FLAG TO REQUEST H3254,5 CHECK STARTING ADRS OF RAM PAGE 2 (ADRS 0200 HEX)
1634 1635	001000	RAMADR - 001000	STARTING AURS OF HAN PAGE 2 (AURS 0200 HEX)
1636	000002	EIAV35 - BIT1	:SELECT V.35 OR EIA 423/232C
1637	000001	INTGRL - BITO	SELECT INTEGRAL MODEM
1638			
1639	040000	NORXEN - BIT14	KILL RXEN DURING "INITRN"
1640	001000	NOLOOP - BIT9	:KILL TTLOOP DURING "INITRN"
1641	000200	NCTBHT - BIT7	DISABLE INITIAL TBMT-0 CHECK IN TXCHAR
1642 1643	000200	MCIBIL - BILL	IDESMOLE INTITUL IDITI-O CHECK IN INCHAN
1644	100000	NOCRDA - BIT15	DISABLE INITIAL RDA-O CHECK IN RXCHAR
1645	040000	NFCRDA - BIT14	DISABLE FINAL RDA-1 CHECK IN RXCHAR
1646	020000	NCRACT - BIT13	DISABLE RXACT=1 CHECK AFTER CLOCKING (RXCHAR)
1647			

```
MACY11 30A(1052) 12-JUL-84 11:12 PAGE 41
CVDNECO DAVII LINE UNIT DIAGS
                                GLOBAL DATA SECTION
           12-JUL-84 10:56
CYDREC.P11
                                SBITL GLOBAL DATA SECTION
 1648
 1649
                                1650
                                      THE GLOBAL DATA SECTION CONTAINS DATA THAT ARE USED
                                11
 1651
                                      IN MORE THAN ONE TEST.
 1652
                                1653
 1654
                                1655
                                I CONTROL BLOCK FOR STACKED ERROR MESSAGES
 1656
                                1------
 1657
 1658
                                      ERRTBL
 1659
      002172
                                                                             LSERRTBL::
      002172
 1660
                                ERRTYP::
                                             . WORD
                                                   0
      002172
 1661
             000000
                                              MORD
                                                   0
                                ERRNBR::
 1662
      002174
             000000
                                                   0
                                ERRMSG::
 1663
             000000
      002176
                                                   0
                                ERRBLK::
 1664
            000000
      002200
 1665
                                1666
                                10 STORAGE FOR DEVICE REGISTERS
  1667
                                1668
1669
                                                          ISTORAGE FOR DEVICE CSR REGISTERS
                                WSRO:
      002202
                                BSRO:
                                       . WORD
                                             0
      002202
             000000
 1670
                                WSR2:
 1671
      002204
                                       . WORD
                                BSR1:
                                             0
             000000
 1672
      002204
                                WSR4:
      002206
 1673
                                BSR2:
                                       . WORD
                                             0
             000000
      002206
 1674
                                WSR6:
      002210
 1675
                                       . WORD
                                BSR3:
      002210
             000000
 1676
                                WSR10:
  1677
      002212
                                       . WORD
                                BSR4:
                                             0
  1678
      002212
             000000
                                WSR12:
  1679
      002214
                                       . WORD
                                             0
                                BSR5:
  1680
      002214
             000000
                                WSR14:
  1681
      002216
                                       . WORD
                                             0
  1682
                                BSR6:
      002216
             000000
  1683
      002220
                                WSR16:
                                       . WORD
  1684
      002220
             000000
                                BSR7:
  1685
      002222
             000000
                                BSR10:
                                       . WORD
  1686
      002224
                                BSR11:
                                       . WORD
                                             0
             000000
  1687
      002226
                                BSR12:
                                       . WORD
                                             0
             000000
      002230
                                       . WORD
  1688
                                BSR13:
                                             0
             000000
                                       . WORD
  1689
                                             0
                                BSR14:
             000000
      002232
                                             0
                                8SR15:
                                       . WORD
  1690
      002234
             000000
                                             0
                                BSR16:
                                       . WORD
      002236
  1691
             000000
                                       . WORD
                                BSR17:
                                             0
  1692
             000000
  1693
                                                          THE FIRST 7 ARE FOR THE USYRT'S ACTUAL
                                UREGS:
  1694
      002242 000010
                                                          REGISTERS. THE LAST ONE IS FOR THE STATUS
  1695
                                                          :REG. (USTATR).
  1696
                                                          ISTORAGE FOR VIA REGISTERS FOR PRINTOUT
                                       .BLKW
      002262 000020
                                VREGS:
                                             16.
  1697
```

CYDNECO DHV11 LINE UNIT DIAG	MACY11 30A(10	052) 12-JUL-84 AL DATA SECTION	11:12	PAGE	42
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1699			100000000	*****	JS STORAGE	***************************************
1701	002322	000000		WORD	0	ITEST DATA
1702	002324	000000 000000		MORD	0	IGOOD DATA
1703	002326	000000		MORD	0	IBAD DATA
1704	002330	000000 000000 000000 000000 000000	XDATA: .	MORD	0	EXCLUSIVE-OR BETWEEN GOOD AND BAD DATA
1705	005225	000000	SCRACH: .	MORD	0	IGEN'L PURPOSE SCRATCH HORD
1706	002334	000000	LOGDEV: .	MORD	0	LOGICAL DEVICE NAMER
1707	002336	000000	REGNUM: .		0	CONTAINS A DEVICE REGISTER NUMBER
1708	002340	000000	PSTACK: .	WORD	0	CONTAINS BASE LEVEL PROGRAM STACK POINTER
1709	002342	000000	PRIOR: .	MORD	0	CPU PRIORITY FOR PRINTOUT
1710	002344	000000	SUBRPC: .	WORD	0	IPC OF SUBR CALL FOR ERROR REPORTS
1711	002346	000000	INTFLG: .	MORD	0	INTERRUPT RECEIVED FLAGS
1712		00000				BIT O FOR TX, BIT 1 FOR RCV
1713	002350	000000	ERRFLG: .	MORD	0	I SUBROUTINE ERROR FLAG
1714	002332	000000	TDFLG:		0	LEVENT TIME-OUT FLAG
1715	002354	000000	RETADR:		0	I SUBR ERROR RETURN ADDRESS
1716	002356	000000	REDBYT:		0	ILO BYTE CONTAINS EYTE READ FROM LU REG
1717	002360	000000	WRIBYT:		0	ILO BYTE CONTAINS BYTE TO LOAD INTO LU REG
1718	002362	000000	LOADAT:		0	CONTAINS TEST DATA LOADED INTO REG
1719	002362 002364	000000	GOODAT:	MORD	0	ISTORAGE FOR EXPECTED DATA
1720	002366	000000	BADDAT:	MORD	0	ISTORAGE FOR ACTUAL DATA
1721	002370	000000	FRSTIM:	MORD	0	IFLAG-O IF PROGRAM JUST LOADED
1722	002372	000000	SAVE4:	MORD	0	ISAVE LOC 4 HERE (ERROR TRAP VECTOR)
1723	002374	000000 000000 000000 000000 000000 00000		WORD	0	ISAVE LOC 6 HERE (ERROR TRAP VECTOR)
1724	002376		ERROR1:		0	ISUBR ERR. BIT FLAGS (DEF'D IN GLOBAL EQUATES)
1725	002400	000000	CIPTYP:	MORD	0	JUSTRY CHIP TYPE, -0 FOR SMC, ELSE -1
1726	002402	000000	SAVLEN:		0	ISAVED TX AND RCV CHAR LENGTHS
1727	002404	000000	DEVMAP:		0	BIT MAP OF ACTIVE DEVICES
1726	002406	000000	DEVPTR:		0	DEVICE MAP BIT POINTER
1729	002410	000000 000000 000000 000000		WORD	0	CONTAINS UNIT NO. (1 TO N)
1730	002412	000000	STARES:		0	IFLAG TO SHOW NO. OF PASSES SINCE STA OR RES
1731	002414	000000		MORD	0	INO. OF CURRENT TEST (FOR SOME TESTS)
1732	305-134					

CVDMECO DMV11 LINE UNIT DIAGS MACY11 30A(1052) 12-JUL-84 11:12 PAGE 43 CVDMEC.P11 12-JUL-84 10:56 GLOBAL DATA SECTION

1733	******		BSELO:	••••	CURRENT	DEVICE	PARAMETERS	**********
1734	002416		SELO:					
1735	002416	*****	HPCSR:	. WORD	16002	00	POTNIE	R TO DMV11 CSR'S
1736	005419	160020	BSEL1:	MORE			POTNTE	R TO BSEL1
1737	002420	160021		, munic	10005		IPOZNICI	10 03002
1738	002416 002420 002422 002422 002424		BSEL2:	11000	14000	12	POTNITE	R TO SEL2
1739	002422	160022	SEL2:	. WORD				R TO BSEL3
1740	002424	160023	BSEL3:	, MORE	16002	.5	POTHIE	N IU BSELS
1741	002426		BSEL4:				0001/00	******
1742	002426	160024	SEL4:	, WORD			POINTE	R TO SEL4
1743	002430	160025	BSEL5:	. WORD	16002	25	POINTE	R TO BSEL5
1744	002432		BSEL6:					
1744	002432	160026	SEL6:	. MORE				R TO SEL6
1746	002434	160027	BSEL7:	. WORD	16002	27	POINTE	R TO BSEL7
1747	002436		BSEL10:					
1748	002436	160030	SEL10:		16003	30	POINTE	R TO SEL10
1749	002440	160031	BSEL11:		16003	31	POINTE	R TO BSEL11
1749 1750 1751	002442		BSEL12:					
1751	002442	160032	SEL12:	. MORE	16003	5	POINTE	R TO SEL12
1751	002444	160033	BSEL13:	MORE	16003	13	POINTE	R TO BSEL13
1752	002446	100033	BSEL14:					
1755	002446	160034	SEL14:	MODE	16003	LA.	POINTE	R TO SEL14
1/34	002446		BSEL15:	MODE			POTME	R TO BSEL15
1733	002450 002452	160035	BSEL16:		1000		11021110	10 00000
1736	002422	*******			D 16003	16	- POTMTE	R TO SEL16
1757	002452	160036	SEL16:					R TO BSEL17
1758	002454	160037	BSEL17:		1900	31	ILOTHIC	N 10 BSCLA1
1752 1753 1754 1755 1756 1757 1758 1759							.000/11	INPUT INTERRUPT VECTOR
1,00	002456	000300	MPIVEC:			00	InterT	THE OF THIS PROPERTY ASSESSED.
1761	002460	000304	MPOVEC:	, MURE		04	IDMATT	OUTPUT INTERRUPT VECTOR
1762	002462 002464	000240	MPRIOR:			10	IDMATT	DEVICE PRIORITY
1763	002464	000000	LUSWI1:	, MOR	D	0	ILINE U	NET SMETCH PACK #1
1764	002466	000000	LUSWI2:			0	ILINE U	NIT SHITCH PACK #2
1765	002470	000000	BROTYP:			0	10-M806	4, 1-MB053/V.35,2-MB053/EIA
1766	002472	000000	TSTCON:	. WOR	D	ŏ	ITEST C	ONNECTOR INDICATOR
1767	002474	000001	BORATE:	. MOR	D	1	;BAUD R	NIT SWITCH PACK #1 NIT SWITCH PACK #2 4, 1=M8053/V.35,2=M8053/EIA ONNECTOR INDICATOR ATE = 56 K
1768							1	0 - 19.2 K
1769								1 = 56 K

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CVDMECO DMV11 LINE UNIT DIAG3 MACY11 30A(1052) 12-JUL-84 11:12 PAGE 44
                                          GLOBAL DATA SECTION
            12-JUL-84 10:56
CVDNEC.P11
                                          ITABLE OF USYRT REGISTER ADDRESSES
  1770
                                          USYREG: . WORD
                                                                           ADDRESS OF ROSRL
                                                           120400
  1771 002476
                120400
                                                  . WORD
                                                           120401
  1772 002500
                 120401
                                                                           ADDRESS OF TOSAL
  1773 002502
                                                   . WORD
                                                           120402
                 120402
                                                  . WORD
                                                           120403
                                                                            ADDRESS OF TOSRH
        002504
                 120403
  1774
                                                  . WORD
                                                           120404
                                                                            ADDRESS OF PCSARL
        002506
                 120404
  1775
                                                                            ADDRESS OF PCSARH
                                                  . WORD
                                                           120405
        002510
                 120405
  1776
                                                                           ADDRESS OF PCR
        002512
                                                  , WORD
                                                           120407
                 120407
  1777
        002514
                                                                           ADDRESS OF USYRT STATUS REG
                 122000
                                                  . WORD
                                                           122000
  1778
  1779
                                          100000 STORAGE FOR DATA READ IN ADDRESS TESTS *****
  1780
        002516 000010
                                          REDDAT: .BLKB 8.
  1781
  1782
                                          110000 GEN'L PURPOSE SCRATCH STORAGE *****
  1783
        002526
                                          REGO:
                                                  . WORD
  1784
                 000000
        002530
                                                  . WORD
  1785
                                          REG1:
                 000000
                                                  . WORD
        002532
                 000000
                                          REG2:
  1786
                                          REG3:
                                                  . WORD
  1787
        002534
                 000000
                                                  . WORD
        002536
                 000000
                                          REG4:
  1788
        002540
                                          REGS:
                                                  . WORD
                                                           0
  1789
                 000000
                                                           0
        002542
                                          REG6:
                                                  . WORD
                 000000
  1790
        002544
                                          REG7:
                                                  . WORD
                                                           0
  1791
                 000000
  1792
                                                  SCRATCH STORAGE FOR MESSAGE REPORTING
  1793
                                          110000
                 000000
                                                  . WORD
  1794
        002546
                                          THPO:
        002550
                                          TMP1:
                                                  . WORD
                 000000
  1795
        002552
                                                  . WORD
                 000000
                                          THP2:
                                                           0
  1796
        002554
                 000000
                                          THP3:
                                                  . WORD
                                                           0
  1797
        002556
                                                   . WORD
                 000000
                                          THP4:
  1798
                                                           0
                                                  . WORD
  1799
        002560
                 000000
                                          TMP5:
                                                           0
  1800
        002562
                 000000
                                                  . WORD
                                                           0
                                          TMP6:
  1801
                                                  . HORD
                                                          0
                 000000
                                          THP7:
  1802
                                          100000 INBUS LU REG BIT MASKS FOR UNPREDICTABLE BITS *****
  1803
        002566
  1804
                                          UPBITS:
        002566
                                                                            MASK FOR ROBR
  1805
                    377
                                                   .BYTE
                                                           377
        002567
                                                           000
                                                                            MASK FOR RDSR
  1806
                    000
                                                  .BYTE
        002570
                    000
                                                  .BYTE
                                                           000
                                                                            MASK FOR TOBR
  1807
        002571
                    360
000
                                                           360
                                                                            MASK FOR TOSE
  1808
                                                   BYTE
                                                           000
                                                                            IMASK FOR SSAR
        002572
  1809
                                                  .BYTE
                                                                            MASK FOR PCSAR
  1810
        002573
                    000
                                                           000
                                                  .BYTE
  1811
        002574
                    347
                                                  .BYTE
                                                           347
                                                                            MASK FOR PCR
  1812
  1813
        002575
                                          TDSRNRW: .BYTE 200
                                                                           ITDSR NON-R/W BITS
```

CVDMECO		LINE UNIT 12-JUL-84	 30A(1052) DATA TEST			11:12	PAGE	45
1814 1815 1816	002576		.SBTTL D			TTERNS E *****		
1817	002576	377		BYTE	377			
1818	002577	377		BYTE	377			
1819	002600	377		BYTE	377 377			
1820	005603	377 377		BYTE	377			
1822	002603			BYTE	377			
1823	002604			BYTE	377			
1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1826 1829 1830 1831	002605			BYTE	366			
1825			: **** DA	TA DAT	TERM	E		
1826	002606		PATE:	IN PAI	IERM			
1828	002606			BYTE	000			
1829	002607			BYTE	000			
1830	002610			BYTE	000			
1831	002611			BYTE	000			
1832 1833 1834	002613			BYTE	000			
1834	002614			BYTE	000			
1835	002615			BYTE	110			
1836								
1837			Issess DA	TA PAT	TERN	G ****		
1838 1839	002616		PATG:	BYTE	000			
1840	002617			BYTE	001			
1841	002620			BYTE	003			
1842	002621	004		BYTE	004			
1843	002622			BYTE	005			
1844	002623	100		BYTE	100			
1846	002625			BYTE	101			
1847	002626	103		BYTE	103			
1848	002627	104		BYTE	104			
1849	002630	105		BYTE	105			
1850	002632	107		BYTE	107			
1852	002633	017		BYTE	017			
1853	002634	027		BYTE	027			
1854	002633	041		BYTE	041			
1855	002636	200		BYTE	200			
1857	002640 002640 002640 002642	277		BYTE	277 103			
1858	002641	144		BYTE	144			
1859	002642	115		BYTE	115			
1860	00264	157		BYTE	157			
1861	002644	000		BYTE	000			
1862			, DA	TA PAT	TEDA	¥ *****		
1864	002645		PATX:	IN PAI	ENIA	~ +++++		
1865	002645	125		BYTE	125			
1866	002645 002646 00264	252		BYTE	252			
1867	002647	000		BYTE	000			
1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868	005920	577		BYTE	377 001			
1003	002651	001		BITE	001			

CVDMECO.	DMV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11 30A(1052) 12-J DATA TEST PATT		11:12	PAGE 46
1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884	002652 002653 002654 002655 002657 002660 002661 002663 002664 002665 002667	004 010 020 040 100 200 376 375 373 367 357 357		.8YTE .8YTE .8YTE .8YTE .8YTE .8YTE .8YTE .8YTE .8YTE .8YTE .8YTE	002 004 010 020 040 100 200 376 375 373 367 357 377 277 177		
1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905	002671 002672 002673 002674 002675 002676 002701 002702 002703 002704 002705 002706 002707 002710 002711 002712 002713	252 000 377 001 002 004 010 020 040 100 200 376 375 377 357 357 277		.8YTE	125 252 000 377 001 002 004 010 020 040 100 200 376 375 373 367 357 357		
1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	002715 002716 002717 002720 002721 002722 002723 002724 002725 002730 002731 002732 002733 002734 002735	252 000 377 001 002 004 010 020 040 100 200 376 375 375 367 357		BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	125 252 000 377 001 002 004 010 020 040 100 200 376 375 377 357 357		

CVDMECO	DHV11 LIN	E UNIT DIAGS JUL-84 10:56	MACY11	30A(1052 DATA TE			11:12	PAGE	47
1926	002740	177		EPATX:	.BYTE	177			
1927 1928					DATA PAT	TERN	T		
1929	002741			PATI:			•		
1930	002741	000			.BYTE	000			
1931	002742	041			BYTE	041			
1932	002743	102			DYTE	102			
1933	002744	143			BYTE BYTE BYTE BYTE BYTE BYTE	143			
1934	002745	204			.BYTE	204			
1935	002746	245			.BYTE	245			
1936	002747	306			.BYTE	306			
1937	002750	347			BYTE	347			
1938	002751	000			BYTE	000			
1939	002752	001			BYTE	001			
1940	002753	002			BYTE.	002 004			
1941	002754	040			BYTE	040			
1943	002755	100			BYTE	100			
1944	002756 002757 002760	200			RYTE	200			
1945	002760	000			BYTE	000			
1946	002761	346			BYTE	346			
1947	002762	345			BYTE	346 345			
1948	002763 002764	343			BYTE	343			
1949	002764	307			.BYTE	307			
1950	002765	247			BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	247			
1951	002766	147			.BYTE	147			
1952	002767	347			.BYTE	347			
1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1956	002770	242			.BYTE	242			
1954	002771	105			BYTE.	105			
1955	002772	347			BYTE	347			
1936	002773 002774	010			BYTE.	010			
1957	002775	020 367			BYTE	367			
1959	002776	357			BYTE	357			
1960	002777	030			BYTE	030			
1961	003000	027			BYTE	027			
1962	003001	377			BYTE	377			
1963									
1961 1962 1963 1964 1965 1966 1967 1968					DATA PAT	TERN	J *****		
1965	003002			PATJ:					
1966	003002	000			.BYTE	000			
1967	003003	000			BYTE	000			
1968	003004	001			BYTE	001			
1303	003005	002			BYTE	002			
1970 1971	003006 003007	020			.BYTE	020			
1972	003010	040			BYTE	040			
1973	003011	010			BYTE	010			
1974	003022	020			.0	020			
1975					DATA PAT	TERN	K		
1976	003012			PATK:					
1977	003012	000			.BYTE	000			
1978	003013	377			BYTE	377			
1979	003014	376			.BYTE	376			
1980	003015	375			BYTE	375	-1		
1981	003016	373			.BYTE	373			

-	-	-		-
6	ы	а	а	7
-	_	-	 ~	

CVDMECO CVDMEC.	DHV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052) DATA TEST			11:12	PAGE	48
1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999	00301 00302 00302 00302 00302 00302 00302 00303 00303	177 1 377 2 000 3 001 4 002 5 004 6 010 7 200 1 125 1 252				BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	376 177 377 000 001 002 004 010 200 125 252 000			
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2006 2009 2010 2011 2012 2013	003033 003033 003033 003034 003044 003044 003044 003044 003046 003046 003056 003055	000 017 016 015 013 016 017 017 017 000 001 002 004 010 000 000 000 000 000 000 000				BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	000 017 016 015 013 016 017 017 000 001 002 004 010 000 005 012 000			

CVDMEC.		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(105			11:12	PAGE	49
2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	003054 003055 003056 003057 003060 003061 003062	014 060 001 007			PATQ:	DATA 6 .BYTE .BYTE .BYTE .BYTE .BYTE .BYTE	000 002 014 060 001 007 037	Q *****		
2025 2026 2027	003064				ENDPAT .EVEN					

CVDMECO DMV11 LINE UNIT DIAG3 MACY11 30A(1052) 12-JUL-84 11:12 PAGE 50 CVDMEC.P11 12-JUL-84 10:56 DATA TEST PATTERNS

2028 2029 2030 2031 2032 2033 2034 2035 2036

:*** RECEIVED DATA BUFFER (64. WORDS) ***
RCVBUF: .BLKW 64.

CVDMECO CVDMEC.		LINE UNIT	DIAG3 10:56	MACY11	OA(1052) 12-JUL-84 11:12 PAGE 51 GLOBAL TEXT SECTION	0
2037					.SBTTL GLOBAL TEXT SECTION	
2038 2039 2040 2041 2042 2043					######################################	
2044 2045 2046 2047 2048	003264				DEVTYP <m8053 m8064="" or=""></m8053>	
2059 2050 2051 2052 2053	003264 003264 003272 003300	051117	032460 046440 000	020063 030070	L\$DVTYP:: ASCIZ /M8053 .EVEN	OR M8064/
2055 2056 2057					TITLE OF PROGRAM	
2059 2060 2061	003304 003304	000012			.RADIX 10. DESCRIPT	
2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2066 2067 2068 2069 2070	003304 003312 003320 003326 003334 003342	046504 046040 047125 051505 050040 020063	026526 047111 052111 051524 051101 043117	030461 020105 052040 026440 020124 031440	.ASCIZ /OHV-11	LINE UNI
2069 2070 2071 2072	·	003352			.RADIX 8.	

CVDMECO DMV11 LINE UNIT DIAG3 CVDMEC.P11 12-JUL-84 10:56	MACY11 30A(1052) 12-	JUL-84 11:12 PAGE 52 TINE SECTION
2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083	.SBTTLM-I	LOOP MSTCLR MASTER CLEAR AND ENTER M-LOOP MASTER CLEAR & ENTER M-LOOP QUENCE:
2081 2082 2083 2084 2085 2086 2087 2088 2099 2090 2091 2092 2093 2094 003352 112777 000301 2095 2096 003360 010346 2097 003362 012703 001000 2098 003366 077301 2099 003370 012603	NA: <resu< td=""><td>PC.MSTCLR NS :IF NO ERROR OCCURED, PROCEED WITH ROUTINE :AN ERROR MESSAGE HAS BEEN STACKED: PRINT IT OTHER SPECIAL ERROR PROCESSING MAY BE DONE KERE (I.E. CKLOOP)> MPTION OF NORMAL PROCESSING></td></resu<>	PC.MSTCLR NS :IF NO ERROR OCCURED, PROCEED WITH ROUTINE :AN ERROR MESSAGE HAS BEEN STACKED: PRINT IT OTHER SPECIAL ERROR PROCESSING MAY BE DONE KERE (I.E. CKLOOP)> MPTION OF NORMAL PROCESSING>
2094 003352 112777 000301	177040 MSTCLR: MOVB	GRUN!HCLR!HREQ. GBSEL1 ; INITIATE M-LOOP
2095 2096 003360 010346 2097 003362 012703 001000 2098 003366 077301 2099 003370 012603	14: SOB HOV	R3,-(SP) #512R3 ;MAIT FOR THE M-LOOP TO FINISH THE OPERATION R3,18 (SP)+,R3
2102 003400 001023 2103 003402 004737 004166	177022 BITB BME JSR MOV GTDF 002172 002174 002176 002200 SEC BR CLC 94: RTS	##RDY.#BSEL2 :DID THE M-LOOP FINISH SI :YES, GOOD. RETURN PC.GETHSR :GET BYTE SELECT REGISTERS ##RUM:MCLR!MREQ.GDATA :IDENTIFY REQUESTED FUNCTION EHS.ERRA : "MRDY" TIMEOUT GUEUE "DEVICE FATAL" ERROR # 1 HOV #T.EDF.ERRTYP HOV #ERROR HOV #ERROR HOV #ERROR HOV #ERROR SET CARRY TO INDICATE ERROR 1 EXIT WITH THE "ERROR" FLAG (CARRY BIT) SET CLEAR C BIT FOR NO ERRORS PC :RETURN

CVDMECO (DMV11 L	INE UNIT	DIAG3 10:56	MACY11	30A(1052) 12-JU	A-84 11:12 READ	PAGE 5	3	
2120 2120 2121						*******	OP READ THE SPECIFIED	ADDRES	S WITHIN THE DMV-11 (M8053)	*********
2122					CALL	ING SEQU	ENCE:			
2124 2125 2126 2127 2128 2129 2130						JSR .WORD .WORD BCC ERROR <any 01<="" td=""><td><destination N#</destination </td><td>ADDRE</td><td>ER WITHIN DMV-11> SS WITHIN LSI-11> F NO ERROR OCCURED, PROCEED WITH N EMROR MESSAGE HAS BEEN STACKED: ROCESSING MAY BE DONE HERE (I.E.</td><td>PRINT IT</td></any>	<destination N#</destination 	ADDRE	ER WITHIN DMV-11> SS WITHIN LSI-11> F NO ERROR OCCURED, PROCEED WITH N EMROR MESSAGE HAS BEEN STACKED: ROCESSING MAY BE DONE HERE (I.E.	PRINT IT
2131					. N6:	<resump< td=""><td>TION OF NORMA</td><td>NL PROC</td><td>ESSING></td><td></td></resump<>	TION OF NORMA	NL PROC	ESSING>	
2132 2133 2134 2135						******	**********	*****	************************	********
2136 2137	003454 003460	012577 112777	176746 000001	176734	READ:	MOVB	(R5)+,8SEL4 #REDLOC,8BSE	EL2 ;T	ETUP SOURCE POINTER ELL M-LOOP TO GIVE US THE REQUEST	TED DATA
2140 2141 2142	003470 003474	010546 012703 077301 012603	001000		16:	MOV MOV SOB MOV	R3,-(SP) #512.,R3 R3,1# (SP)+,R3		HAIT FOR THE M-LOOP TO FIR	ISH THE OPERATION
2145	003500 003506	132777 001023	000200	176714		BITB	OMRDY, SBSEL2		ID THE M-LOOP FINISH	
2148	003510 003514 003522	004737 012737	004166 000001	002324		JSR MOV GTDF	PC, GETHSR #REDLOC, GDAT EM4, ERR4	TA :I	ET BYTE SELECT REGISTERS DENTIFY REQUESTED FUNCTION PARDY" TIMEOUT QUEUE "DEVICE FATAL" ERROR	• 2
2151 2152 2153	003522 003530 003536 003544	012737 012737 012737 012737	000001 000002 014307 020120	092172 002174 002176 002200					MOTORTE AN ERROR HAS BEEN STACKED	# #2,ERRNBR # #EM4,ERRMSG # #ERR4,ERRBLK
2155	003552 003554	000261 000401				SEC BR	61		INDICATE AN ERROR HAS BEEN STACKED BETURN WITH THAT INDICATION	
2159 2160 2161 2162 2163	003556 003560 003564	000241 117735 000205	176646		54: 64:	CLC MOVB RTS	88SEL6,8(R5)) + IF	INDICATE "NO ERROR" PUT DATA WHERE CALLER WANTS IT	
2164										

CVDMECO		LINE UNIT	DIAG3 10:56	MACY11	30A(1052) 12-J	UL-84 11:12 PAG READ INMEDIATE	SEQ 53
2165 2166 2167					1 ******	******	DOP READ INVEDIGATE THE SP	ECIFIED ADDRESS WITHIN THE DMV-11 (M8053)
2168					CALLI	ING SEQU	ENCE:	
2170 2171 2172 2173 2174 2175 2176						JSR .WORD .WORD BCC ERROR <any 0<="" td=""><td><destination< td=""><td>CONTENTS OF REG. IS PUT HERE> IF NO ERROR OCCURED, PROCEED WITH ROUTINE AN ERROR MESSAGE HAS BEEN STACKED: PRINT IT R PROCESSING MAY BE DONE HERE (I.E. CKLOOP)></td></destination<></td></any>	<destination< td=""><td>CONTENTS OF REG. IS PUT HERE> IF NO ERROR OCCURED, PROCEED WITH ROUTINE AN ERROR MESSAGE HAS BEEN STACKED: PRINT IT R PROCESSING MAY BE DONE HERE (I.E. CKLOOP)></td></destination<>	CONTENTS OF REG. IS PUT HERE> IF NO ERROR OCCURED, PROCEED WITH ROUTINE AN ERROR MESSAGE HAS BEEN STACKED: PRINT IT R PROCESSING MAY BE DONE HERE (I.E. CKLOOP)>
2177					Ns:	<resum< td=""><td>PTION OF NORMAL P</td><td>ROCESSING></td></resum<>	PTION OF NORMAL P	ROCESSING>
2179						******	•••••	•••••••
2181 2182 2183 2184	003566 003566 003572	012577	176634 000001	176622	READI:	MOV	(R5)+,8SEL4 GREDLOC,8BSEL2	SETUP SOURCE POINTER TELL M-LOOP TO GIVE US THE REQUESTED DATA
2185 2186 2187 2188 2189	003600 003602 003606 003610	012703 077301	001000		16:	MOV MOV SOB MOV	R3,-(SP) #512.,R3 R3,1# (SP)+,R3	INAIT FOR THE M-LOOP TO FINISH THE OPERATION
2190 2191 2192	003612		000200	176602		BITB	OFFDY, ABSEL2	:DID THE M-LOOP FINISH :YES, GOOD. RETURN
2194 2194 2195 2196 2197	003622 003626 003634	012737	004166 000001	002324		JSR HOV GTDF	PC, GETWSR GREDLOC, GDATA EMA, ERRA	GET BYTE SELECT REGISTERS IDENTIFY REQUESTED FUNCTION "MRDY" TIMEOUT QUEUE "DEVICE FATAL" ERROR # 3
2198	003634 003642 003650 003656	012737 012737 012737 000261	000001 000003 014307 020120	002172 002174 002176 002200		SEC BR		HOV OT.EDF, ERRTYP HOV OS, ERRIGR HOV OEM, ERRISG HOV OERA, ERROLK ; INDICATE AN ERROR HAS BEEN STACKED
2203 2204	003666	000401				BR	61	RETURN WITH THAT INDICATION
2200 2201 2202 2203 2204 2205 2206 2207 2208 2209	003670 003672 003676	000241 017725 000205	176534		54:	CLC MOV RTS	85EL6,(R5)+ R5	INDICATE "NO ERROR" PUT DATA WHERE CALLER WANTS IT RETURN
2210 2211								

```
MACY11 30A(1052) 12-JUL-84 11:12 PAGE 55
CVDMECO DMV11 LINE UNIT DIAGS
                                      .... M-LOOP -- WRITE
            12-JL-84 10:56
CVDMEC.P11
                                      .SBTTL .... M-LOOP -- WRITE
 2212
                                      .......
 2213
                                      MRITE - WRITE THE SPECIFIED DATA INTO THE SPECIFIED DMV-11 ADDRESS
 2214
 2215
                                        CALLING SEQUENCE:
  2216
  2217
                                             JSR
                                                    RS. WRITE
 2218
                                                    «ADDRESS OF REGISTER WITHIN DHV-11»
                                             . WORD
 2219
                                                    <ADDRESS OF DATA BYTE>
                                              MORD
 2220
                                                                    IF NO ERROR OCCURED, PROCEED WITH ROUTINE IAN ERROR MESSAGE HAS BEEN STACKED: PRINT IT
  2221
  2222
                                             (ANY OTHER SPECIAL ERROR PROCESSING MAY BE DONE HERE (I.E. CKLOOP)>
  2223
  2224
                                      : NA: «RESUMPTION OF NORMAL PROCESSING»
  2225
  2226
                                      2227
  2228
                                                                    SETUP SOURCE POINTER
MAKE DATA AVAILABLE TO M-LOOP
THE REST OF THIS ROUTINE IS THE SAME AS "WRITE!"
                                      WRITE: MOV
                                                     (R5)+,85EL4
  2229
       003700 012577 176522
                                                     8(R5) . . 8SEL6
       003704 113577 176522
                                             MOVE
  2230
                                                     MLWRI
       003710 000404
                                             BR
  2231
  2232
  2233
 2234
2235
```

CVOMECO.		LINE UNIT	DIAG3 10:56	HACY11	30A(1052) 12-J	A-84 11:12 PAG RITE INVEDIATE	E 56 SEQ 55
2236 2237 2238 2239 2240					WRITE	******		SPECIFIED DATA INTO THE SPECIFIED DMV-11 ADDRESS
2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2265 2267 2268 2267 2268						JSR .MORD .MORD BCC ERROR <any 01<="" td=""><td><data field<="" td=""><td>SISTER WITHIN DMV-11> DATA TO BE WRITTEN IN DMV-11> IF NO ERROR OCCURED, PROCEED WITH ROUTINE AN ERROR MESSAGE HAS BEEN STACKED: PRINT IT R PROCESSING MAY BE DONE HERE (I.E. CKLOOP)></td></data></td></any>	<data field<="" td=""><td>SISTER WITHIN DMV-11> DATA TO BE WRITTEN IN DMV-11> IF NO ERROR OCCURED, PROCEED WITH ROUTINE AN ERROR MESSAGE HAS BEEN STACKED: PRINT IT R PROCESSING MAY BE DONE HERE (I.E. CKLOOP)></td></data>	SISTER WITHIN DMV-11> DATA TO BE WRITTEN IN DMV-11> IF NO ERROR OCCURED, PROCEED WITH ROUTINE AN ERROR MESSAGE HAS BEEN STACKED: PRINT IT R PROCESSING MAY BE DONE HERE (I.E. CKLOOP)>
2248 2249 2250 2251 2252					N4:	•••••	PTION OF NORMAL P	ROCESSING>
2253 2254 2255 2256 2257	003712 003712 003716 003722	012577 012577	176510 176510 000002	176472	MRITEI:	HOV HOV HOVB	(R5)+,8SEL4 (R5)+,8SEL6 MRILOC,88SEL2	SETUP SOURCE POINTER MAKE DATA AVAILABLE TO M-LOOP TELL M-LOOP TO WRITE THE DATA
2258 2259 2260 2261	003730 003732 003736 003740	012703 077301	001000		18:	MOV MOV SOB MOV	R3,-(SP) 0512.,R3 R3,14 (SP)•,R3	WAIT FOR THE M-LOOP TO FINISH THE OPERATION
2262 2263 2264 2265 2266 2267	003742 003750 003752 003756 003764	001023 004737	000200 004166 000002	176452		BITB BNE JSR MOV GTDF	OPPDY, 88SEL2 54 PC, GETUSR OWRILOC, GDATA EMA, ERR4	DID THE M-LOOP FINISH YES, GOOD. RETURN GET BYTE SELECT REGISTERS IDENTIFY REQUESTED FUNCTION "MRDY" TIMEOUT
2270	003764 003772 004000 004006 004014	012737 012737	000001 000004 014307 020120	002172 002174 002176 002200		CEC		GUEUE "DEVICE FATAL" ERROR # 4 HOV HOV #4.ERRNER HOV #6H4.ERRNEG INDICATE AN ERROR HAS BEEN STACKED
2274	004016	000261 000401				SEC	61	RETURN WITH THAT INDICATION
2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2261	004020 004022	000241			54: 64:	CLC	RS	INDICATE "NO ERROR"

CVDMECO		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052) 12-J BSR	UL-84 11:12 PAGE GET BYTE SELECT RE	57 GISTER	RS					
2282 2283					.SBTTL	GET	BSR GET BYTE SE	LECT F	REGIS	TERS	•••••	*****	*****	*******
2284 2285						GET TH	E CONTENTS OF ALL	CONTRO	DL AN	D STAT	US REG	ISTERS		
2286 2287 2288						FUNCTI	ON - THIS SUBROUTS BYTE SELECT REGS	INE COL	FOR	S THE THE PU	CONTEN RPOSE	OF DISP	HE LAY.	
2288 2289 2290 2291 2292 2293 2294 2295 2296 2297						ENTRY	CONDITIONS - NONE			:	***		*.:	
2292						EXIT	CONDITIONS - NONE			:		****	: "	
2294 2295					RE	GISTERS	DESTROYED - NONE		••	0000	0000	• •	• •	
2296 2297					1		••••••							
2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315	004024 004032 004046 004054 004062 004076 004104 004120 004126 004134 004156 004164	117737 117737 117737 117737 117737 117737 117737 117737 117737 117737 117737 117737 117737	176366 176362 176356 176352 176346 176336 176332 176326 176316 176312 176316 176312 176306 176302 176276	002202 002204 002206 002210 002214 002216 002220 002222 002224 002226 002230 002232 002234 002234	GETBSR:	HOVE HOVE HOVE HOVE HOVE HOVE HOVE HOVE	### SELO. ### SERO ### SELO. ### SERO. ### SER	TABLE		CALLE		ALUES I	NTO THE	PRINT-OUT
2316					.SBTTL	GET	MSR GET MORD SE ON OF ABOVE SUBROL	JTINE	REGIS	TERS				
2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327	004166 004174 004202 004216 004216 004224 004232	017737 017737 017737 017737 017737	176224 176222 176220 176216 176214 176212 176210 176206	002202 002204 002206 002210 002212 002214 002216 002220	GETWSR:	HOV HOV HOV HOV HOV HOV	SELO, WSRO SEL2, WSR2 SEL4, WSR4 SEL6, WSR6 SEL10, WSR10 SEL12, WSR12 SEL14, WSR14 SEL16, WSR16	#MOVE	THE	4 WORD	REGIS	TERS TO	THE OT	MERWISE
2327	004246	000207	2.0200	JOEEE J		RTS	PC	RETUR	RN TO	CALLE	R			

CVDMECO		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052) 12-JU REG S	A-84 11:12 PA	GE 58 PECIFIED USYRT REGISTER
2328 2329 2330 2331					STURE	G PER	FORM A STATIC T	ST OF SPECIFIED USYRT REGISTER EST OF THE SPECIFIED USYRT REGISTER
2332					: CALLI	NG SEQUE	INCE:	
2330 2331 2332 2333 2334 2335 2336 2337 2338 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351						<"TDATA	" CONTAINS THE	
2339						JSR	PC, STUREG	
2340 2341 2342						BCC ERROR <any 01<="" td=""><td>N4 THER SPECIAL ERR</td><td>IF NO ERROR OCCURED, PROCEED WITH ROUTINE AN ERROR MESSAGE HAS BEEN STACKED: PRINT IT OR PROCESSING MAY BE DONE HERE (I.E. CKLOOP)></td></any>	N4 THER SPECIAL ERR	IF NO ERROR OCCURED, PROCEED WITH ROUTINE AN ERROR MESSAGE HAS BEEN STACKED: PRINT IT OR PROCESSING MAY BE DONE HERE (I.E. CKLOOP)>
2344					: N\$:	<resumf< td=""><td>TION OF NORMAL</td><td>PROCESSING></td></resumf<>	TION OF NORMAL	PROCESSING>
2345								
2346					1	******	************	***************************************
2348 2349	004250 004254		004264 004302		STUREG:	HOV	RO.24 RO.44	PUT SPECIFIED REGISTER'S ADDRESS IN I/O CALLS
2352	004264 004264 004266 004270	000000	003700		24:	JSR .WORD .WORD BCS	RS, WRITE 0 TDATA 104	WRITE IT
2354 2355	00-210	103-31				003	201	jun Emon, Ext
2356 2357 2358 2359	004272 004276 004302 004304	004537	002326 003454		44:	CLR JSR . MORD . MORD	BOATA RS,READ 0 BOATA	CLEAR BOTH BYTES JUST IN CASE READ IT BACK AGAIN HODIFIED FROM ABOVE ***
2360	004306					BCS	104	ION ERROR, EXIT
2361	00474		000704	000704		-	COATA BOATA	OTO HE BEAD HANT HE LIBOTES
2362 2363 2364	004316	123737 000241	002524	002326		CHPB	GDATA, BDATA	IDID WE READ WHAT WE WROTE? I (THIS ISN'T NEEDED FOR THE ERROR TEST BUT HUST BE CLEARED ON EXIT IF NO ERROR OCCURED)
2364 2365 2366 2367 2368	004320 004322					BEQ GTDF	104 EM25,ERR7A	PRINT READ/WRITE ERROR QUEUE "DEVICE FATAL" ERROR # 5
2368 2369 2370 2371	004322 004330 004336 004344	012737	000001 000005 014360 020244	002172 002174 002176 002200				MOV #T.EDF, ERRTYP MOV #5, ERRNBR MOV #EM25, ERRMSG MOV #ERR7A, ERRBLK
2369 2370 2371 2372 2373 2374 2375	004352 004354	000261			10#:	SEC	PC	; INDICATE THAT AN ERROR WAS DETECTED

SEQ 58 CVDMECO DMV11 LINE UNIT DIAG3 MACY11 30A(1052) 12-JUL-84 11:12 PAGE 59STALL -- DELAY FOR 10.5 MICRO-SEC'S (ON LSI-11) 2376 2377 2378 2379 2380 2381 2382 2383 2384 .SBTTLSTALL -- DELAY FOR 10.5 MICRO-SEC'S (ON LSI-11) STALL -- THIS SUBROUTINE STALLS FOR ABOUT 10.5 MICRO-SECONDS 1-----STALL: RTS PC

CVDMECO DMV11	LINE UNIT DIAGS	MACY11 30A(1052)	12-JUL-84	11:12	PAGE 60
AMBRICO DIII	12 ## -84 10.56				

CADLEC"	711	12-JUL-04	10:30					
2385					.SBTTL			
2386 2387 2388 2389 2390 2391 2392					10		D INTO THE 8 MO USYRT REGISTER	RD STORAGE AREA (UREGS) THE CONTENTS OF THE
2390 2392						CALLI	ING SEQUENCE:	
2394 2395	004360 004366	012737 012737	002242 120400	004422 004420	GETURS:		OUREGS,54	; INIT POINTER TO REGISTER ADDRESSES
2396 2397 2398 2399 2400 2401 2402 2403 2404 2405	004374 004400 004404 004406	005037 004537 122000 002260	002260 003454			CLR JSR .MORD .MORD	UREGS+14. R5,READ USTATR UREGS+14.	CLEAR STORAGE WORD READ THE USYRT STATUS REGISTER STATUS REGISTER'S ADDRESS WITHIN DMV-11 ADDRESS ALLOCATED TO THAT REG. W/IN "UREGS"
2401 2402 2403 2404 2405	004410 004414 004420 004422	005077 004537 000000 000000	000006 003454		34: 44: 54:	CLR JSR .MORD .MORD	854 R5,READ 0	CLEAR STORAGE WORD READ A LINE UNIT REG REGISTER ADDRESS GOES HERE STORAGE ADRS IN TABLE GOES HERE
2406 2407 2408 2409	004424 004430 004436	005237 023727 001772	004420 004420	120406	64:	INC CPP BEQ	48. #USYRT+6	INCREMENT REG NO. ITHIS IS NOT A VALID REGISTER ADDRESS SO IT MUST BE BYPASSED
2410 2411 2412 2413	004440 004446 004454	062737 023727 001355	000002 004420	004422 120410		ADD CHP BNE	02.54 44.0USYRT-10 38	:ADVANCE ADDRESS OF STORAGE AREA POINTER :SEE IF ALL REGS READ YET :BR IF NOT
2414 2415 2416 2417	004456	000207				RTS	PC	RETURN
2418 2419 2420 2421 2422					10	VARIOUS	VIA REGISTERS.	WORD STORAGE AREA (VREGS) THE CONTENTS OF THE
2423 2424					1000000	******	SEQUENCE :	***************************************
2425 2426 2427 2428	004466 004474 004500	012737 012737 005077 004537	002262 120000 000006 003454	004506 004504	GETVRS:	MOV CLR JSR	OVREGS.54 OVIA.44 854 R5.READ	INIT POINTER TO REG STORAGE TABLE INIT POINTER TO REGISTER ADDRESSES ICLEAR STORAGE WORD READ A VIA REG REGISTER ADDRESS GOES HERE
2429 2430 2431 2432 2433 2434 2435	004504 004506 004510 004514 004522 004530 004532	000000 000000 005237 062737 023727 001361 000207	004504 000002 004504	004506 120020	44: 54: 64:	. MORD . MORD INC ADD CHP BNE RTS	0 44 62,54 44,6VIA-16. 34 PC	STORAGE ADRS IN TABLE GOES HERE INCREMENT REG NO. INCREMENT STORAGE ADRS SEE IF ALL VIA REGS READ YET BR IF NOT RETURN

CVDMECO DMV11 LINE UNIT DIAG3 MACY11 30A(1052) 12-JUL-84 11:12 PAGE 61 CVDMEC.P11 12-JUL-84 10:56INITT1 INITIALIZE TIMER #1	
2436 .SBTTLINITT1 INITIALIZE TIMER #1 2437 2438 :• INITT1 - INITIALIZE TIMER # 1	*******************************
2439 2440 : CALLING SEQUENCE:	
3444 . MORD <value in<="" loaded="" td=""><td>TO THE T1 LATCH 8 VIAT1C & VIAT1D> TO "T1L-L" & "T1C-H"> BE LOADED INTO "ACR", BIT 5 WILL BE CLEAR BIT 6 ("T1") OF THE INTERRUPT ("IER")></td></value>	TO THE T1 LATCH 8 VIAT1C & VIAT1D> TO "T1L-L" & "T1C-H"> BE LOADED INTO "ACR", BIT 5 WILL BE CLEAR BIT 6 ("T1") OF THE INTERRUPT ("IER")>
2449	
2451 2452 2453 2454 2455 2455 2456 2456 2457 2458 2459 2460 ; NOTE: **NOTE: **NOTE: **NOTE: **PIATIC**) IS LOADED. THE COUNT **VIATIC**) IS LOADED. THEN, TIL-L IS **VIATIC**) IS LOADED. THEN, TIL-L IS **VIATIC**) IS LOADED. THEN, TIL-L IS **OAD WILL RESET THE TIMEOUT BIT AND COUNTY THEN THE CALLING SEQUENCE (BIT COUNTY THEN THE CALLING SEQUENCE (BIT COUNTY THEN THE ENABLE BIT ("TI") IN "IER". **OUTE: **PARAMETER IN THE COUNTY THEN THEN THEN THEN THEN THEN THEN THEN	LOADED AND NEXT, T1C-H. THIS LAST OUNTER LOGIC. IT IS EXPECTED AT THIS ILITY OF THE VIA CHIP WILL NOT BE USED NABLE BIT IS GIVEN THROUGH THE THIRD T 5 = 0 WILL CAUSE THIS ROUTINE TO
2461 ;************************************	***************************************
2463 004534 010146 INITT1: MOV R1,-(SP) ;SAVE TH 2464 004536 012537 004660 MOV (R5)+,74 ;SETUP V 2465 004542 012537 004706 MOV (R5)+,104 ;SETUP V 2466 004546 111501 MOVB (R5),R1 ;GET & P 2467 004550 143701 000077 BICB 077,R1 2468 004554 010137 004650 MOV R1,44 ;SETUP C	E REGISTER WE WILL BE USING ALUE TO BE WRITTEN IN LATCH ALUE TO BE WRITTEN IN COUNTER ROCESS BITS FOR ACR 6 & 7 ALL SET ACR'S BITS 6 & 7
2470 2471 004562 106301 ASLB R1 THE PAS 2472 004564 106301 ASLB R1 BUT, TH 2473 2474 2475 BIT 7 A	T THE BIT TO BE USED IN SETTING OR G BIT 6 OF "IER" SED BIT IS IN THE WRONG POSITION E PASSED BIT SHOULD CONTROL THE OPERATION. WE ARE SETTING OR CLEARING BIT 6 HE PASSED BIT WILL BECOME THE CONTROLLING NO WE WILL "OR" IN THE BIT WE WISH TO
2477 004566 143701 000177 BICB 177,R1 FIRST, 2478 004572 153701 000100 BISB 100,R1 THEN SE 2479 004576 010137 004610 MOV R1,24 THE CAL	ROLLED (BIT 6). MAKE SURE ALL UNMANTED BITS ARE CLEARED T BIT 6 L WILL NOW WRITE THE APPROPRIATE VALUE
2486 004616 120013 VIAACR :THE VIA 2487 004620 000000 34: .WORD 0 :INTO "3	E CURRENT SETTING OF
	T VALUE ME CURRENT SETTING OF BITS 6 & 7 M ACCORDING TO THE PASSED VALUES

-	CVDMEC.	DMV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052) 12-JU	L-84 11:12 PAGE NITIALIZE TIMER 4	62	364 0
		004636	010137	004650			MOV	R1,4#	PASS THE NEW REG. SETTING TO APPROPRIATE	CALL
-	2493 2494 2495 2496	004646 004646 004650	120013	003712		44:	JSR VIAACR . WORD		INRITE TO ITHE VIA'S ACR ITHE NEW REGISTER SETTING	
	2497 2498 2499 2500	004656 004656	120006	003712		78:	JSR VIAT1C .WORD	R5,WRITEI 0	; WRITE TO ;LOW ORDER LATCH REGISTER (T1L-L) ; THE VALUE PASSED	
	2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511	004666 004676 004676	004537	004661 003712	004676	84:	MOVB JSR VIAT1D . WORD	7#+1,8# R5,WRITEI 0	SETUP FOR AND IMPLIE TO INIGH ORDER LATCH REGESTER (T1L-H) THE VALUE PASSED	
	2506 2507 2508 2509	004704 004704 004706	120004	003712		104:	JSR VIATIA . WORD		:WRITE TO :LOW ORDER LATCH & COUNTER (T1L-L & T1C-L) :THE VALUE PASSED	
	2511 2512 2513 2514 2515	004716 004716 004726 004726	004537	004707 003712	034724	114:	MOVB JSR VIAT1B . MORD	10\$+1,11\$ R5,WRITEI 0	SETUP FOR AND INFITE TO INIGH ORDER COUNTER (T1C-H) <also c="" passed<="" starts="" td="" the="" value=""><td>TR></td></also>	TR>
	2516					; DON'T	WAIT AR	OUND FOR ANYTHING	TO HAPPEN JUST (JEST) RETURN!	
	2517 2518 2519 2520		012601 005205				MOV	(SP)+,R1 R5	BUT FIRST RESTORE R1 AND PUT R5 BACK ON A WORD BOUNDRY (THE LA PASSED PARAM. WAS A BYTE, NOT A WORD!)	ST
	2521 2522 2523 2524	004732	2 000205				RTS	R5	;NOW, RETURN	
-18										

CVDMECO DMV11 LINE UNIT DIAG3 CVDMEC.P11 12-JUL-84 10:56	MACY11 30A(1052) 12-JI	UL-84 11:12 PAG INITIALIZE TIMER	
2525 2526 2527	: * INITT2 - IN	TT2 INITIALIZE	*********************************
2528 2529		ING SEQUENCE:	
2530		JSR R5.INIT	72
2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537		.WORD <value .byte="" 5="" <bit="" set<="" td="" to=""><td>LOADED INTO "T2L-L" & "T2C-H"> WILL BE LOADED INTO "ACR", BIT 4 WILL BE USED OR CLEAR BIT 5 ("T2") OF THE INTERRUPT ENABLE OR ("IER")></td></value>	LOADED INTO "T2L-L" & "T2C-H"> WILL BE LOADED INTO "ACR", BIT 4 WILL BE USED OR CLEAR BIT 5 ("T2") OF THE INTERRUPT ENABLE OR ("IER")>
2538 2539	* NOTE:		
2540	10		
2540 2541 2542 2543 2544 2545 2546 2547 2548 2549	# FIRST T2L-L # BIT AND COU! # INTERRUPT F/	NTER LOGIC. IT I ACILITY OF THE VI PT ENABLE BIT IS JENCE (BIT 4 = 0	T2C-H. THIS SECOND LOAD WILL RESET THE TIMEOUT IS EXPECTED AT THIS TIME (5/25/79) THAT THE IA CHIP WILL NOT BE USED HOMEVER, ACCESS TO GIVEN THROUGH THE SECOND PARAMETER IN THE WILL CAUSE THIS ROUTINE TO CLEAR THE ENABLE BIT
2549			
2550 004734 010146 2551 004736 012537 005056 2552 004742 111501	HOVB	R1,-(SP) (R5)+,104 (R5),R1	SAVE THE REGISTER WE WILL BE USING SETUP VALUE TO BE WRITTEN IN COUNTER GET & PROCESS BIT FOR ACR 5
2552 004742 111501 2553 004744 143701 000337 2554 004750 010137 005046 2555 004754 112501 2556		337,R1 R1,44 (R5)+,R1	SETUP CALL TO SET OR CLEAR ACR'S BIT 5 NOW, GET THE BIT TO BE USED IN SETTING OR CLEARING BIT 5 OF "IER"
2557 004756 106301 2558 004760 106301 2559 004762 106301	ASLB ASLB ASLB	R1 R1 R1	THE PASSED BIT IS IN THE WRONG POSITION BUT, THE PASSED BIT SHOULD CONTROL THE OPERATION.
2560 2561 2562 2563 2564 004764 143701 000177 2565 004770 153701 000040 2566 004774 010137 005006 2567 2568 005000 004537 003712 2569 005004 120016 2570 005006 000000 2571 2572 005010 004537 003566	7325	~	HE KNOW HE ARE SETTING OR CLEARING BIT 5 THUS, THE PASSED BIT WILL BECOME THE CONTROLLING BIT 7 AND HE WILL "OR" IN THE BIT HE WISH TO
2564 004764 143701 000177	BICB	177,R1	BE CONTROLLED (BIT 5). FIRST, MAKE SURE ALL UNMANTED BITS ARE CLEARED
2565 004770 153701 000040 2566 004774 010137 005006	BISB	040.R1 R1,2#	THEN SET BIT 5 THE CALL WILL NOW WRITE THE APPROPRIATE VALUE
2568 005000 004537 003712		RS, WRITEI	MRITE TO
2569 005004 120016	VIAIER	•	THE VIA'S IER
2570 005006 000000 2571	24: .WORD	0	INTERRUPT ENABLE/DISABLE INFORMATION
2572 005010 004537 003566		R5,READI	READ THE CURRENT SETTING OF
2573 005014 120013 2574 005016 000000	34: VIAACR	0	ITHE VIA'S ACR
2573 005014 120013 2574 005016 000000 2575 2576 005020 013701 005016 2577 005024 143701 000040 2578 005030 053701 005046 2579 005034 010137 005046	MOV BICB BIS	36,R1 040,R1 46,R1 R1,48	GET THAT VALUE CLEAR THE CURRENT SETTING OF BIT 5 SET IT ACCORDING TO THE PASSED VALUE PASS NEW REG. SETTING TO APPROPRIATE CALL
2580			

-	CVDMECO	DHV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052) 12-JU	L-84 11:12 PAGE NITIALIZE TIMER	E 64 #2
-	2581 2582	005040	120013	003712		41:	JSR VIAACR .WORD	RS, WRITEI	:WRITE TO :THE VIA'S ACR :THE NEW REGISTER SETTING
-	2583 2584 2585 2586	005040	004537	003712		•••	JSR	RS, WRITEI	IMRITE TO
-	2586 2587 2588 2589	005054				104:	VIATZA . WORD	0	:LOW ORDER LATCH & COUNTER (T2L-L & T2C-L) :THE VALUE PASSED
-	2590	005066	004537	005057 003712	005074		MOVB JSR VIAT28	104+1,114 R5,WRITEI	SETUP FOR AND SMRITE TO SHIGH ORDER COUNTER (T2C-H) <also ctr="" starts=""></also>
	2591 2592 2593	005074 005074				114:	. WORD	0	THE VALUE PASSED
١	2593 2594 2595 2596					; DON'T			G TO HAPPEN JUST (JEST) RETURN!
	2597 2598	005076					INC	(SP)+,R1 R5	BUT FIRST RESTORE R1 AND PUT R5 BACK ON A WORD BOUNDRY (THE LAST PASSED PARAM. WAS A BYTE, NOT A WORD!)
	2599 2600 2601	005102	2 000205				RTS	R5	THEN RETURN

CVDMECO.	DHV11 L	INE UNIT	DIAG3 10:56	MACY11	30A(1052	CHK R	A-84 11:12 PAG HESET USYRT/VERIF	E 65 Y ALL USYRT REGS & RESET STATE		320 04
2602 2603 2604 2605 2606 2607 2608 2609					RSTCH	K - MANA ARE FAIL	IALLY RESET THE UNIT THEIR RESET SING REGISTER IS SEQUENCE: JSR R5,RSTC	TOVERIFY ALL USYRT REGS & RESET STOP AND VERIFY THAT ALL USYRT REGITATE. AN ERROR MESSAGE IDENTIFYING STACKED IF ONE IS ENCOUNTERED.	ISTERS THE	
2610 2611					,					
2612 2613 2614	005104 005104 005106	010146 010246			RSTCHK:	HOV	R1(SP) R2(SP)	SAVE R1		
2615 2616 2617	005110 005114	004537 120000	003712			JSR VIAORB	R5,WRITEI	SET PROGRAM RESET BIT IN VIA ORB	REG	
2618 2619 2620 2621 2622 2623	005116 005120 005124 005126	000031 004537 120000 000030	003712			JSR VIAORB DTR:RTS	IND!PRESET RS.WRITEI	CLEAR PROGRAM RESET BIT IN VIA O	AB REG	
2623 2624 2625	005130 005132 005136	005001 012702 016137	002606 002476	005150	64:	CLR MOV MOV	R1 #PATF,R2 USYREG(R1),74	INIT USYRT REG ADRS PTR INIT DATA PATTERN POINTER SET USYRT READ ADDRESS		
2624 2625 2626 2627 2628 2629 2630 2631	005144 005150 005152 005154	004537 000000 000000 123722	003566		7\$: 8\$:	JSR . MORD . MORD CHPB	RS,READI 0 0 84,(R2)+	READ A USYRT REG USYRT REG ADRS GOES HERE DATA READ IS RETURNED HERE SEE IF REG CONTAINS EXPECTED DAT	A	
2032	005160	010137	002336			MOV	94 R1,REGNUM	SET USYRT REG NO. FOR PRINTOUT		
2633 2634 2635	005166 005172 005176	006237 005037 116237		002324		ASR CLR HOVB	REGNUM GDATA -1(R2),GDATA	GET MORD OFFSET		
2636 2637 2638	005212	013737	003132	002326	STACK	"USYRT A	84.BDATA IOT CLEANED BY PR EM2.ERR10	GET ACTUAL DATA		
2637 2638 2639 2640 2641 2642 2643	005212 005220 005226 005234	012737 012737 012737 012737	000001 000006 014214 020364	002172 002174 002176 002200					10V 10V 10V	OT.EDF, ERRTYP OG, ERROGR OEN2, ERRMSG OERR10, ERRBLK
2644 2645 2646 2647	005242 005244	000261 000406	020304	002200		SEC BR	104	SET C BIT TO FLAG ERROR TAKE ERROR EXIT		
2647 2648 2649 2650 2651	005246 005252 005256	062701 020127 002727	000050		96:	ADD CHP BLT	02.R1 R1.016.	INCR USYRT REG ADRS PTR SEE IF ALL REGS READ YET OR IF NOT		
2650 2651 2652 2653 2654	005260 005262 005264 005266	000241 012602 012601 000205			104:	CLC MOV MOV RTS	(SP)+,R2 (SP)+,R1 R5	RESTORE R2 RESTORE R1 RETURN		
2655										

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MACY11 30A(1052) 12-JUL-84 11:12 PAGE 66
CVDMECO DMV11 LINE UNIT DIAG3
                                   ....RSTCHK -- RESET USYRT/VERIFY ALL USYRT REGS & RESET STATE
            12-JUL-84 10:56
CVDHEC.P11
                                   ** WAITSO - THIS SUBROUTINE STALLS FOR AT LEAST SO MICRO-SEC. AND THEN RETURNS.
 2657
                                   2658
                                                 R1,-(SP)
                                   WAITSO: MOV
                                                                ISAVE R1
       005270 010146
 2659
                                          MOV
                                                 #500..R1
                                                               INIT COUNTER
              012701 000764
       005272
 2660
                                          SOB
                                                 R1.3#
                                                                DELAY HERE FOR 23.8 MICRO-SEC'S
                                   34:
       005276
              077101
 2661
                                                 (SP)+,R1
                                                                RESTORE R1
                                          MOV
 2662
       005300
              012601
                                                                RETURN
 2663
       005302 000207
                                          RTS
 2664
                                          OVERHEAD (JSR, MOV, MOV, MOV, & RTS) ADD UP TO 25.25 MICRO-SEC'S
 2665
 2666
2667
                                          THEREFORE, ACTUAL TOTAL DELAY IS 49.35 MICRO-SECONDS
 2668
 2669
 2670
 2671
 2672
2673
                                    .SBTTL ....SETVIA -- SET UP VIA REGISTERS
                                   * SETVIA - SET UP THE VIA REGISTERS
 2674
 2675
                                   : .
                                   :
                                          THIS SUBROUTINE PROGRAMS THE VIA REGISTERS FOR NORMAL OPERATION. BY
 2676
                                   :*
 2677
                                          LOADING THE DORB, DORA, ORB, ACR, PCR, IER.
                                   :
 2678
 2679
                                   :
                                          CALLING SEQUENCE :
 2680
                                             JSR PC.SETVIA
                                   :
 2681
                                   2682
      005304
                                   SETVIA:
 2683
2684
2685
      005304
              004537
                    003712
                                                 RS. WRITEI
                                                                SET PORT B FOR OUTPUT MODE
                                          VIADPB
       005310
              120002
      005312
              000377
                                          377
       005314
              004537
                     003712
                                                 RS, WRITEI
                                                                SET PORT A FOR INPUT MODE
                                          VIADPA
      005320
              120003
                                                               : (BITO IS ONLY OUTPUT BIT)
       005322
              000001
                                          001
      005324
              004537
                     003712
                                          JSR
                                                 RS. WRITEI
                                                                DISABLE USYRT INTERNAL LOOPBACK
 2690
2691
      005330
                                          VIAORA
              120017
      005332
              000000
                                          000
 2692
       005334
              004537
                     003712
                                          JSR
                                                 RS. WRITEI
                                                                : INIT PORT B
 2693
       005340
                                          VIAORE
              120000
 2694
      005342
                                          DTR!RTSND
              000030
 2695
      005344
              004537
                     003712
                                                 RS. WRITEI
                                                                :SET ACR FOR :
                                                                              T1 SQUARE WAVE OUTPUT MODE.
                                          JSR
                                          VIAACR
              120013
                                                                              T2 ONE-SHOT OUTPUT MODE.
 2696
      005350
 2697
      005352
              000350
                                                                              SR AT SYS CLOCK RATE ON CB1
                                          350
 2698
                                          JSR
                                                                SET PCR FOR :
                                                                              CB1 NEG TRANS INPUT MODE.
       005354
                     003712
                                                 RS. WRITEI
              004537
                                          VI.VPCR
                                                                              CA2 NEG TRANS INPUT MODE.
 2699
       005360
              120014
 2700
      005362
              000022
                                          022
                                                                              CA1 NEG TRANS INPUT MODE
 2701
      005364
              004537
                                          JSR
                                                 A5. WRITEI
                                                                DISABLE ALL MICRO-INTRPTS
                     003712
                                          VIAIER
 2702
      005370
              120016
 2703
      005372
              000177
                                          177
 2704
                                          RTS
      005374
              000207
                                                 PC
                                                                : RETURN
 2705
 2706
```

```
MACY11 30A(1052) 12-JUL-84 11:12 PAGE 67
CYDRECO DRIVII LINE UNIT DIAGS
                                        ....INIDMY -- INIT DMY (MCLR, VIA SETUP)
              12-JU -84 10:36
CVDMEC.P11
                                         .SBTTL .... INIDAY -- INIT DAY (MCLR. VIA SETUP)
  2707
                                        2708
                                        ** INIDHY - THIS SUBROUTINE INITIALIZES THE DHY-11, BY DOING A MASTER CLEAR, ENTERING THE M-LOOP, AND PROGRAMMING THE VIA REGS FOR DEFAULT
  2709
  2710
                                                OPERATION.
                                        ..
  2711
                                        ..
  2712
                                                CALLING SEQUENCE :
  2713
                                        ..
  2714
                                        10
                                        2715
                                                        PC.MSTCLR
                                                                        MASTER CLR, M-LOOP
                                        INIDMY: JSR
  2716
        005376
                004737
                        003352
                004737
                                                JSR
RTS
                                                        PC.SETVIA
                                                                         PROGRAM VIA
  2717
        005402
                        005304
        005406
                                                                         RETURN
               000207
  2718
  2719
  2720
  2721
  2722
                                         .SBTTL .... OKUSTS -- CHECK USYRT STATUS REGISTERS
  2723
                                        2724
                                        CRUSTS - THIS SUBROUTINE CHECKS THE USYRT STATUS BY READING THE USYRT STATUS REGISTER AND COMPARING IT TO THE LOW BYTE OF THE WORD FOLLOWING THE CALL. IF THERE IS A HISHATCH, THE SUBROUTINE STACKS THE ERROR INFORMATION, AND SETS THE "C" BIT AND RETURNS.
  2725
  2726
  2727
  2728
                                        2729
                                        CKUSTS:
  2730
        005410
                                                                        IREAD USYRT STATUS REGISTER
  2731
        005410
                004537
                        003566
                                                        RS.READI
                                                USTATR
  2732
        005414
                122000
        005416
  2733
                000000
                                                 . WORD
                                        18:
        005420
                122537
                                                        (R5)+,1#
  2734
                        005416
                                                                         ISEE IF STATUS MATCHES EXPECTED
        005424
                                                                         CLEAR C BIT
                000241
                                                ac
  2735
                                                 BEO
                                                                         IBR IF STATUS OK
        005426
                001430
  2736
                                                        #7,REGNUM
-1(R5),GDATA
                                                                         ISET USYRT REG NO. FOR PRINTOUT
                                                MOV
  2737
        005430
                012737
                        000007
                                002336
                                                                         GET EXPECTED DATA
  2738
        005436
                        177777
                                002324
                                                MOV
                016537
                                                         BOATA
                                                                         IGET ACTUAL DATA
                                                CLR
  2739
                005037
                        002326
                                                        14.BDATA
  2740
        005450
                                002326
                113737
                        005416
                                                HOVE
                                        ISTACK "USYRT STATUS INCORRECT" ERROR
  2741
                                                        EM68, ERR10
  2742
        005456
                                                GTDF
  2743
                                                                                 QUEUE "DEVICE FATAL" ERROR # 7
                                                                                                                 OT . EDF , ERRTYP
  2744
        005456
                012737
                                002172
                        000001
                                                                                                         MOV
                                                                                                                 07, ERRIBR
  2745
        005464
                012737
                                002174
                        000007
                                                                                                         MOV
        005472
                                                                                                                 JEMS8, ERRMSG
                                002176
                                                                                                         MOV
  2746
                012737
                        014650
                                                                                                                 GERRIO, ERRBLK
                        020364
                                                                                                         MON
  2747
        005500
                012737
                                002200
                                                                         ISET C BIT FOR ERROR
                000261
 2748
        005506
                                                                        INCREMENT RS PAST ARGUMENT
 2749
        005510
                005205
                                        21:
  2750
        005512
                000205
                                                                         RETURN
  2751
 2752
2753
2754
```

CYDNECO CYDNEC.	DWV11 L	INE UNIT	DIAG3 10:56	MACY11	30A(1052) 12-JU	L-84 11:12 PAG HECK TRANSHITTER	E 68 ACTIVE (TXACT)		SEQ 67
2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766						CT - THE STATUS STATE O	S SUBROUTINE CHE REGISTER, AND RE	SMITTER ACTIVE (TXACT) CKS FOR THE PROPER STATE OF TXACT PORTS AN ERROR IF IT IS NOT PROPER CRO FOLLOWING THE CALL.	in the BLY SET	USYRT TO THE
2763					10	. MORD	<bit expec<="" is="" o="" td=""><td>TED VALUE OF TXACT></td><td></td><td></td></bit>	TED VALUE OF TXACT>		
2764	005514				CKTACT:	•••••	************			
2767	005514 005522 005526	012737 004537 122000	000007 003566	002336		MDV JSR USTATR	07,REGNUM RS,READI	ISET REG NO. FOR POSSIBLE ERROR I	REPORT	
2768 2769 2770	005530	000000	000001		10:	SIT BEQ	0 681TO,(R5)+ 26	GET EXPECTED STATE OF TXACT		
2771 2772 2773	005536 005540 005546	001422 132737 001040	000004	005530		BITB	OTXACT,18	SEE IF TXACT = 1		
2774 2775	005550				STACK	GTOF N	IDT SET" MSG EM69, ERR12			
2776 2777 2778 2779	005550 005556 005564	012737 012737 012737	000001 000010 014677	002172 002174 002176					OR # 8 MOV MOV MOV	OT.EDF, ERRTYP OB, ERROGR OEM69, ERRMSG OERR12, ERROLK
2780 2781 2782	005572 005600 005602	012737 000261 000423	020714	002200		SEC	41	SET C BIT TO FLAG ERROR		VENIZ, EWIEL
2782 2783 2784 2785 2786	005604 005612	132737 001416	000004	005530	26:	BEQ "TXACT N	OTXACT,18 38 OT CLEARED" MSG	SEE IF TXACT - 0		
2785	005614				STACK	GTDF	EM70, ERR12			
2787 2788	005614 005622 005630	012737 01273 01273	014715	002176					OR # 9 MOV MOV MOV	OT.EDF, ERRTYP OP, ERRORR OEHTO, ERROSG OERR12, ERROLK
2792 2793 2794	005636 005644 005646 005650	012737 000261 000401	020714	002200	34:	SEC BR CLC	41	SET C BIT TO FLAG ERROR TAKE ERROR EXIT CLEAR C BIT FOR NO ERRORS		
2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799	005652	000241			46:	CLC	RS	RETURN		

2900 2801 2802 2803 2804 2805 2806 2807 2808 2809						CT - THI STATUS STATE O	S SUBROUTINE CHE REGISTER, AND RE F BIT O IN THE W	IVER ACTIVE (RXACT) CXS FOR THE PROPER STATE OF RX PORTS AN ERROR IF IT IS NOT PROPER STATE OF RX ORD FOLLOWING THE CALL.	ACT IN THE	USYRT TO THE
2806 2807					:	JSR	SEQUENCE : RS,CKRACT			
2008					1000000	, WORD	<bit expec<="" is="" o="" td=""><td>TED VALUE OF RXACT></td><td>*******</td><td>******</td></bit>	TED VALUE OF RXACT>	*******	******
2610 2611	005654 005654 005662	012737 004537	000007 003566	002336	CKRACT:	MOV JSR	07.REGNUM RS.READI	SET REG NO. FOR POSSIBLE ERRE	OR REPORT	
2612 2613 2614	005666	122000			10:	USTATR . MORD	0			
2815 2816	005672	032725	000001			BIT	68ITO,(R5)+	GET EXPECTED STATE OF RXACT BR IF EXPECTED RXACT = 0		
2817 2818	005700 005706	132737	000040	005670		BITB	GRXACT,18	SEE TF RXACT = 1		
2619	005710				STACK		OT SET" MSG EM71.ERR12			
2621						0.0.	C. II. Z. J. C. III. Z.	: QUEUE "DEVICE FATAL"		
2620 2621 2622 2623 2624 2625 2626 2627 2628 2630 2631 2632 2633	005710	012737	000001	002172					HOV	OT . EDF , ERRT'
2824	005724	012737	014737	002176					HOV	GEN71, ERRMS GERR12, ERRB
2826	005740	000261	050.24	OULEUU		SEC		SET C BIT TO FLAG ERROR		
2626 2627	005742	000423 132737	000040	005670	24:	BR BITB	ORXACT,18	SEE IF RXACT = 0		
2829	005752	001416			STACK	BEQ "RXACT N	36 OT CLEARED" MSG	BR IF RXACT - O		
2631	005754				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	GTDF	EM72,ERR12			
2632 2633 2634 2635 2636	005754 005762 005770 005776	012737 012737 012737 012737	000001 000013 014755 020714	002172 002174 002176 002200				: QUEUE "DEVICE FATAL"	MOV MOV MOV MOV MOV	#11, ERRIER #11, ERRIER #EH72, ERRIES #ERR12, ERRE
2637 2638	006004	000261	020114	WEEW)		SEC BR	46	SET C BIT TO FLAG ERROR		ACIAI AE (CIAID
2839 2840	006010 006012	000241			36: 46:	CLC RTS	R5	CLEAR C BIT FOR NO ERRORS		*
2841 2842										

CVDMEC		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052		L-84 11:12 PAG MECK TRANSMIT BU	E 70 FFER EMPTY		3EU 07
2845 2846 2847 2848 2849 2850 2851 2852 2853 2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2867 2868 2867 2868					CKTB	STATUS I STATUS I STATE OF CALLING JSR . HORD	S SUBROUTINE CHE REGISTER, AND RE F BIT O IN THE W SEQUENCE : RS,CKTBHT	CKS FOR THE PROPER STATE OF TENTER OF THE PROPER STATE OF TENTE		
2655 2656 2657 2658 2659	006014 006022 006026 006030	012737 004537 122000 000000	000007 003566	002336	CKTBMT:	MOV JSR USTATR . MORD	07.REGNUM RS.READI	SET REG NO. FOR POSSIBLE ERRO READ USYRT STATUS	IR REPORT	
2060	006032	032725	000001			BIT	#BITO,(R5)+	GET EXPECTED STATE OF THAT		
5005	006036 006040	001422 132737	000100	006030		BITB	OTBMT,18	IBR IF EXPECTED TBMT - 0		
2863 2864	006046	001040			STACK	"TBHT NO	34 T SET" MSG	IBR IF TOMT = 1		
2865	006050					GTDF	EM73,ERR12	. OFFIE PREVIOUS SATALLES	20000 A 12	
2866 2867 2868 2869 2870	006050 006056 006064 006072	012737 012737 012737 012737	000001 000014 014777 020714	002172 002174 002176 002200				: QUEUE "DEVICE FATAL" E	HOV HOV HOV HOV	OT.EDF, ERRTYP O12, ERROGR OEM73, ERRMSG OERR12, ERROLK
2871 2872	006100	000261				SEC BR	41	SET C BIT TO FLAG ERROR		
2673	006104	132737	000100	006030	24:	BITB	OTBHT,18	SEE IF TOMT = 0		
2874 2875	006112	001416			STACK	"TBMT NO	34 T CLEARED" MSG	BR IF TBMT - 0		
2876	006114					GTDF	EM74,ERR12			
2677 2678 2679 2680 2661	006114 006122 006130 006136	012737 012737	000001 000015 015014 020714	002172 002174 002176 002200				; QUEUE "DEVICE FATAL" E	MOV MOV MOV MOV MOV	#T.EDF,ERRTYP #13,ERRHER #EM74,ERRHSG #ERR12,ERRBLK
2881 2882 2883 2884 2885 2886 2887	006144 006146 006150 006152	000261 000401 000241			34: 44:	SEC BR CLC RTS	44 R5	SET C BIT TO FLAG ERROR TAKE ERROR EXIT CLEAR C BIT FOR NO ERRORS RETURN		
2887 2888 2889										

CVDMECO.		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052)) 12-JU	L-84 11:12 PA ECK RECEIVE DAT	GE 71 A AVAILABLE		
2890 2891 2892 2893 2894 2895 2896 2897 2898 2899					CKRD	- THIS STATUS STATE O	SUBROUTINE CHE REGISTER, AND R F BIT O IN THE SEQUENCE : RS,CKRDA	IVE DATA AVAILABLE CKS FOR THE PROPER STATE OF ROME EPORTS AN ERROR IF IT IS NOT POUR MORD FOLLOWING THE CALL. CTED VALUE OF RDA>	A IN THE US ROPERLY SET	YRT TO THE
2899	006154				CKRDA:	******	************	••••••	*********	******
2900 2901 2902 2903 2904 2905 2906 2907 2906 2909 2910 2911	006154 006162 006166	012737 004537 122000	000007 003566	002336		MOV JSR USTATR	07.REGNUM RS.READI	SET REG NO. FOR POSSIBLE ERI READ USYRT STATUS	NOR REPORT	
2904	006170	000000			14:	. WORD	0			
2905	006172		000001			BEQ	#BITO,(R5)+	GET EXPECTED STATE OF RDA		
2907	006200	132737	000200	006170		BITB	ORDA,1\$;SEE IF RDA = 1		
2906	006206	001040			:STACK	RDA NOT	SET" MSG	IBR IF RDA = 1		
2910	006210				SINGN	GTDF	EM75,ERR12			
2911								: QUEUE "DEVICE FATAL"		45 COC COOTUO
2912 2913	006210		000001	002172					HOV	OT.EDF, ERRTYP
2914	006224	012737	015035	002176					HOV	GENTYS, ENRINSG
2915 2916	006232 006240	012737 000261	020714	002200		SEC		SET C BIT TO FLAG ERROR	MOV	MERR12, ERROLK
2917	006242	000423				BR	44	TAKE FRROR EXTT		
2918	006244	132737	000500	006170	24:	BITB	ORDA,1\$	SEE IF RDA = 0		
5950	006252	001416			:STACK	BEQ RDA NOT	SE CLEARED" HSG	IBK TE KON - O		
2921	006254					GTDF	EM76,ERR12			
2918 2919 2920 2921 2922 2923 2924 2925	006254 006262	012737	000001 000017 015051	002172 002174 002176				; QUEUE "DEVICE FATAL"	MOV MOV MOV	OT.EDF, ERRTYP O15, ERRMOR OEM76, ERRMSG
2926	006276	012737	020714	002200					HOV	MERR12, ERRBLK
2926 2927 2928 2929 2930 2931 2932 2933	006270 006276 006304 006306 006310	012737 000261		40-70-		SEC BR		SET C BIT TO FLAG ERROR		
2929	006310	000401 000241			34:	CLC	41	CLEAR C BIT FOR NO ERRORS		
2930	006312	000205			46:	CLC	R5	IRETURN		
2932										
2933		. 10								
2934										

VDMECO		LINE UNIT	DIAG3 10:56	MACY11			L-84 11:12 PA ECK RECEIVER ST			SEG /1
2935 2936 2937 2938 2939 2940 2941 2942 2943 2944 2945 2946 2947 2948 2949 2950 2951 2952 2953 2954 2955 2956 2957 2958 2959 2960 2961 2962 2963 2964 2965 2966 2967 2968					CKRS/	- THIS STATUS STATE O	SUBROUTINE CHE REGISTER, AND R	IVER STATUS AVAILABLE CKS FOR THE PROPER STATE OF RSA EPORTS AN ERROR IF IT IS NOT PR WORD FOLLOWING THE CALL.	IN THE USY	RT TO THE
2942					10	JSR . WORD	RS, CKRSA	CTED VALUE OF RSA>		
2945					10000000	. WUNU	***********	00000000000000000000000000000000000000	********	*****
2945	006314		000007	002226	CKRSA:	MOV	07,REGNUH	SET REG NO. FOR POSSIBLE ERR		
2947 2948	006314 006322 006326	122000	003566	002336		JSR USTATR	RS, READI	READ USYRT STATUS	ON REPORT	
2949	006330 006332	000000	000001		14:	BIT	0 08ITO,(R5)+	GET EXPECTED STATE OF RSA		
2951	006336	001422				BEQ	21	BR IF EXPECTED RSA = 0		
2952	006346		000020	006330		BITB	#RSA,1#	SEE IF RSA = 1 BR IF RSA = 1		
2954	000540	0010-0			STACK '	RSA NOT	SET" MSG	tou it was - I		
2955	006350					GTDF	EM77,ERR12	: QUEUE "DEVICE FATAL"	50000 A 16	
2957	006350	012737	000001	002172				1 GOEDE DEATCE LYINE		OT .EDF , ERRTYP
2958	006356	012737	000020	002174					HOV	#16,ERRNER
2959	006364	012737	015071	002176						4EM77,ERRMSG 4ERR12,ERRBLI
2961	006400	000261		***************************************		SEC		SET C BIT TO FLAG ERROR		
2962	006402		000020	006330	24.	BR	4\$ eRSA,1\$;TAKE ERROR EXIT ;SEE IF RSA = 0		
2964	006412	001416	000020	000330	24:	BEQ	34	BR IF RSA = 0		
2965					STACK	RSA NOT				
2966	006414					GTDF	EM78,ERR12	: QUEUE "DEVICE FATAL"	F0000 A 17	
2968	006414	012737	000001	002172				, docor bevice raine	HOV	OT . EDF , ERRTYP
2969	006422	012737	000021	002174					MOV	#17,ERRNBR
2970 2971	006436	012737	015105 020714	002176					MOV	øen78, errmsg øerr12, errøli
2972	006444	000261	050124	002200		SEC BR		SET C BIT TO FLAG ERROR		
2973	006446	000401			74.	BR	46	TAKE ERROR EXIT		
2974	006450				36:	RTS	R5	CLEAR C BIT FOR NO ERRORS		
2976	000-32	OUDEUJ			***					
2975	006452	000205			46:	CLC RTS	RS	RETURN		

CVDMEC		INE UNIT	DIAG3 10:56	MACY11			L-84 11:12 P ECK RECEIVER 0		SEQ 72
2978 2979 2980 2981 2982 2983 2984 2985 2986 2987 2988 2999 2991 2992 2993 2994 2995 2996 2997 2998 2999 3000 3001					CKRO	R - THIS USYRT R NOT PR	ECEIVER STATUS OPERLY SET TO SEQUENCE : R5,CKROR	EIVER OVERRUN **********************************	R IF IT IS NG THE CALL.
2988 2989 2990 2991	006454 006462 006466	012737 004537 120401	000001 003566	002336	ČKROR:	MOV JSR RDSRH	#1,REGNUM R5,READI	SET REG NO. FOR POSSIBLE FRANK REP	DRT
2992 2993 2994	006470 006472 006476 006500	000000 032725 001422 132737	000001	006470	14:	.WORD BIT BEQ BITB	0 0BITO,(R5)+ 2\$ 0ROR,1\$	GET EXPECTED STATE OF ROR BR IF EXPECTED ROR = 0 SEE IF ROR = 1	
2996 2997 2998	006506 006510	001040	00020	000710	STACK	BNE	34 R OVRN NOT SET EM90, ERR12	:BR IF ROR = 1	
3000 3001 3002 3003	006510 006516 006524 006532	012737 012737 012737 012737	000001 000022 015450 020714	002172 002174 002176 002200				HOV HOV HOV	## ## ## ## ## ## ## ## ## ## ## ## ##
3002 3003 3004 3005 3006 3007 3008 3009	006542 006544 006552	000261 000423 132737 001416	000010	006470	24:	SEC BR BITB BEQ "ROR NOT	4# eROR,1# 3# CLEARED" MSG	SET C BIT TO FLAG ERROR TAKE ERROR EXIT SEE IF ROR = 0 BR IF ROR = 0	
3010	006554				isinon	GTDF	EM91,ERR12	: QUEUE "DEVICE FATAL" ERROR	
3011 3012 3013 3014	006554 006562 006570 006576	012737 012737 012737 012737	000001 000023 015501 020714	002172 002174 002176 002200				HOV HOV HOV	#19, ERRIBR #EH91, ERRHSG
3015 3016 3017 3018	006604 006606 006610 006612	000261 000401 000241 000205			34: 44:	SEC BR CLC RTS	44 R5	SET C BIT TO FLAG ERROR TAKE ERROR EXIT CLEAR C BIT FOR NO ERRORS RETURN	
3019 3020 3021									

CVDMECO DMV11 LINE UNIT DIAG3 MACY: CVDMEC.P11 12-JUL-84 10:56	1 30A(1052) 12-JUL-84 11:12 PAG CKSEOM CHECK RSOM, REOM	E 74
3022 3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034 3035 006614	USYRT RECEIVER STATUS REPROPERLY SET TO THE STATE IF THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IF THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RS.CKSEOM USYRT RECEIVER STATUS REPROPERTY. IF THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IF THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IF THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IF THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IF THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IF THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IF THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IF THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IN THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IN THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IN THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IN THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IN THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPROPERTY. IN THE SUBROUTINE DETECTION OF THE CALLING SEQUENCE: USYRT RECEIVER STATUS REPORTS	CKS FOR THE PROPER STATES OF RSOM, REOM IN THE EG (ROSRH) AND REPORTS AN ERROR IF THEY ARE NOT ITES OF BITS 0,1 IN THE WORD FOLLOWING THE CALL. ITS AN ERROR, THE ERROR INFORMATION IT SET, WHICH LEAVES THE ERROR REPORTING AT THE NG ROUTINE OR SUBROUTINE.
3036 006614 012737 000007 00233 3037 006622 004537 003566 3038 006626 120401 3039 006630 000000	JSR R5,READI RDSRH 14: .MORD 0	SET REG NO. FOR POSSIBLE ERROR REPORT READ USYRT RECEIVER STATUS
3041 006636 001422 3042 006640 132737 000001 00663 3043 006646 001040 3044	STACK "RSOM NOT SET" MSG	GET EXPECTED STATE OF RSOM BR IF EXPECTED RSOM = 0 SEE IF RSOM = 1 BR IF RSOM = 1
3045 006650 3046 3047 006650 012737 000001 0021 3048 006656 012737 000024 0021 3049 006664 012737 014427 0021 3050 006672 012737 020714 00220	74 76	QUEUE "DEVICE FATAL" ERROR # 20 MOV #T.EDF,ERRTYP MOV #20,ERRNBR MOV #EM29,ERRMSG MOV #ERR12,ERRBLK
3051 006700 000261 3052 006702 000473 3053 006704 132737 000001 00663	SEC BR 64	SET C BIT TO FLAG ERROR TAKE ERROR EXIT SEE IF RSOM = 0 BR IF RSOM = 0
3055 3056 006714 3057 3058 006714 012737 000001 0021 3059 006722 012737 000025 0021 3060 006730 012737 014406 0021	GTDF EM28, ERR12	QUEUE "DEVICE FATAL" ERROR # 21 HOV #T.EDF,ERRTYP HOV #21,ERRNBR HOV #EM28,ERRMSG
3065 006756 001422	SEC BR 6# 6 34: BIT #BIT1,-2(R5) BEQ 4#	SET C BIT TO FLAG ERROR TAKE ERROR EXIT GET EXPECTED STATE OF REOM BR IF EXPECTED REOM = 0 SEE IF REOM = 1
3067 006766 001040 3068 3069 006770 3070	STACK "REOM NOT SET" MSG GTDF EM31, ERR12	BR IF REOM = 1 GUEUE "DEVICE FATAL" ERROR # 22 HOV #T.EDF, ERRTYP
3071 006770 012737 000001 0021 3072 006776 012737 000026 0021 3073 007004 012737 014465 0021 3074 007012 012737 020714 00220 3075 007020 000261	74 76 00 SEC	MOV #22.ERRNBR MOV #EM31.ERRMSG MOV #ERR12.ERRBLK
3076 007022 000423 3077 007024 132737 000002 0066	BR 64 BITB GREOM,14	SEE IF REOM = 0

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-	CVDMECO CVDMEC.F		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11			L-84 11:12 PAGE HECK RSOM, REOM	75	SEQ 74
	3079	007032	001416			STACK	BEQ "REOM NO" GTDF	54 T CLEARED" MSG EM30, ERR12	BR IF REOM = 0	
-	3081 3082 3083 3084	007034 007042 007050	012737 012737 012737	000001 000027 014444	002172 002174 002176				HOV #	T.EDF, ERRTYP 23, ERRNBR EM30, ERRMSG
		007056 007064 007066 007070	000261 000401 000241	020714	002200	54:	SEC BR CLC RTS		SET C BIT TO FLAG ERROR TAKE ERROR EXIT CLEAR C BIT FOR NO ERRORS	ERR12,ERRBLK
	3089 3090 3091	007072	000205			64:	RTS	R5	RETURN	

CVDHEC		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11			L-84 11:12 PAG HECK TRANSMIT SE		
3092 3093 3094 3095 3096 3097 3098 3100 3101					CHKT	SO - THI STATUS OF BIT CALLING JSR .WORD	S SUBROUTINE CHE REGISTER, AND SE O IN THE WORD FO SEQUENCE : R5,CHKTSO	SMIT SERIAL OUT BIT CKS FOR THE PROPER STATE OF TS TS THE "C" BIT IF IT IS NOT SELLOWING THE CALL. TED VALUE OF TSO>	SO IN THE USYRT ET TO THE STATE
3102 3103 3104 3105	007074 007074 007106 007106	012737 004537 122000	000007 003566	002336	ČHKTSO:	MOV JSR USTATR . MORD	#7.REGNUM R5.READI	SET REG NO. FOR POSSIBLE EREAD USYRT STATUS	ROR REPORT
3106 3107 3108 3109	007110 007110 007110	032725	000001	007110	14:	BIT BEQ BITB	#BITO,(R5)+ 2# #TSO,1#	GET EXPECTED STATE OF TSO BR IF EXPECTED TSO = 0	
3110 3111 3112	007120	001040	000010	00/110		BNE	34 ACK "TSO NOT SET EM100, ERR12	SEE IF TSO = 1 BR IF TSO = 1 ERROR ***	
3113 3114 3115 3116 3117 3118	007136 007136 007146 007156 007166	012737 012737 012737 012737 012737 000261	000001 000030 015536 020714	002172 002174 002176 002200		SEC BR	48	GUEUE "DEVICE FATAL" SET C BIT TO FLAG ERROR TAKE ERROR EXIT	ERROR # 24 MOV #T.EDF, ERRTYP MOV #24, ERRNBR MOV #EM100, ERRMSG MOV #ERR12, ERRBLK
3119 3120 3121 3122 3123 3124 3125	007164 007177	132737 2 001416	000010	007110	24:	BITB	#TSO.1# 3# ACK "TSO NOT CLE	SEE IF TSO = 0	
3126 3127 3128	007174 00720 00721	012737 012737 012737	000031 015556	002174 002176		Siur	EM101,ERR12	: QUEUE "DEVICE FATAL"	MOV #T.EDF.ERRTYP MOV #25.ERRNBR MOV #EM101.ERRMSG
3129 3130 3131 3132 3133 3134	007210 007220 007220 007230 007230	000261 000401 000241	020714	002200	34: 46:	SEC BR CLC RTS	4# R5	SET C BIT TO FLAG ERROR TAKE ERROR EXIT CLEAR C BIT FOR NO ERRORS RETURN	MOV #ERR12.ERRBLK
3134									

CVDMEC.	DHV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052	12-JU	L-84 11:12 NIT TRANSMIS	PAGE SION (77 OF A MESSAGE	324 70
3135 3136 3137 3138 3139 3140 3141 3142 3143 3144 3145 3146 3147 3148 3149 3150 3151 3152 3153 3154 3155 3156 3157					INIT	THE U FOLLO SYNCH ALL TI IF TH AND TO OF TH CALLING JSR . MOR	S SUBROUTINE SYRT PCSARL, WING THE CAL OR FLAG HAS HE FLAGS IN E SUBROUTINE HE C-BIT SET E CALLING RO SEQUENCE: RS, INITRN D <value <specia<="" td=""><td>INITI H AND L; L(BEEN THE US DETEC , WHIC UTINE</td><td>ISSION OF A MESSAGE ATES TRANSMISSION OF A ME THE PCR WITH THE DATA PAS DADING AND CLOCKING 1 SOM SERIALIZED IN THE USYRT, SYRT STATUS REGISTER THROUGHTS AN ERROR, THE ERROR IN THE LEAVES THE ERROR REPORT OR SUBROUTINE. NO INTO USYRT PCSARL, H> NO INTO USYRT PCR (PASSED) THE MASKING VALUE (PASSED)</td><td>SED IN THE 2 WORDS UNTIL THE FIRST THE PROGRAM MONITORS GHOUT THE PROCESS. FORMATION IS STACKED ING AT THE DISCRETION IN LO BYTE)> IN HI BYTE)></td></value>	INITI H AND L; L(BEEN THE US DETEC , WHIC UTINE	ISSION OF A MESSAGE ATES TRANSMISSION OF A ME THE PCR WITH THE DATA PAS DADING AND CLOCKING 1 SOM SERIALIZED IN THE USYRT, SYRT STATUS REGISTER THROUGHTS AN ERROR, THE ERROR IN THE LEAVES THE ERROR REPORT OR SUBROUTINE. NO INTO USYRT PCSARL, H> NO INTO USYRT PCR (PASSED) THE MASKING VALUE (PASSED)	SED IN THE 2 WORDS UNTIL THE FIRST THE PROGRAM MONITORS GHOUT THE PROCESS. FORMATION IS STACKED ING AT THE DISCRETION IN LO BYTE)> IN HI BYTE)>
3151	00707					******	**********	*****	******************	***************
3152	007234				INITRN:	HOV	R1,-(SP)		CAVE DI	
3154	007236		003712			JSR	RS, WRITEI		RESET THE USYRT	
3155	007242	120000				VIAORB				
3156	007244	000031					TR!PESET			
3157	007246	004537	003712			JSR	RS, WRITEI		CLEAR USYRT RESET BIT	
3158	007252	120000				WIAGRE	70			
3159	007254		007270			RTSND!D			GET VALUE TO LOAD INTO US	YOT DECADI
3161	007262		003712			JSR	RS. WRITEI		LOAD USYRT PCSARL	INT PESIME
3162	007266					PCSARL	,		,20.0 00 1 00	
3163	007270	000000			16:	. WORD	0			
3164	007272	2 112537	007304			HOVB	(R5)+,24	1	GET VALUE TO LOAD INTO PC	SARH
3165	007276	004537	003712			JSR	RS, WRITEI		LOAD USYRT PCSARH	
3166 3167	007302 007304	120405			24.	PCSARH . WORD	0			
3168	007306		007332		24:	HOVE	(R5)+,34		GET VALUE TO LOAD INTO PO	
3169	007312		002402			CLR	SAVLEN		ide. These to core anto re	
3170	007316	113737	007332	002402		HOVE	34, SAVLEN		SAVE CHAR LENGTH BITS	
3171	007324	004537	003712			JSR	RS, WRITEI		LOAD USYRT PCR	
3172	007330	120407				PCR				
3173 3174	007332 007334	000000	003712		34:	JSR	RS, WRITEI		SET ACR FOR T1 ONE-SHOT H	one.
3175	007340	120013	003/12			VIAACR	MJ, MMZ IEZ		SET HER FOR 11 ONE-SHOT II	000
3176	007342	000200				200				
3177 3178	007344	004537	003712			JSR	R5, WRITEI		LOAD VIA TIL-L	
3178	007350	120006				VIAT1C				
3179	007352	000300				300			1.000 NAS AN M	
3180	007354	120007	003712			JSR VIATID	R5, WRITEI		LOAD VIA T1L-H	
3182	007360 007362	004537 120007 000000				000				
3183	007364	004537	005410			JSR	R5,CKUSTS		CHK USYRT STATUS FOR INIT	'D STATE
3180 3181 3182 3183 3184 3185 3186	007370	000110				110			TBMT = 1, TSO = 1	
3185	007372					BCS	76		IF ERROR, EXIT SUBROUTINE	
3186	*******		******			*****	204 444			ADAMETERS
3187 3188	007374		007530	007414		BICB	204,134 (R5)+,134		* SET UP DEFAULT VIAORB P * CLEAR ANY SPECIFIED VIA	
3189	007402	142537	001414			9109	(43)4,134	1	- CELL WILL SECTIFED ATM	one eris.
3190	007406	004537	003712			JSR	RS, WRITEI		SET UP USYRT	

CVDMECO	DMV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(105	i2) 12-JU	A-84 11:12 (NIT TRANSMISS	PAGE 78 ION OF A MESSAGE
3191 3192	00741	120000			134:	VIAOR8 TXEN!RX	EN!TTLOOP	. THIS VALUE MIGHT BE MODIFIED ABOVE
3193								
3194	00741		003712			JSR	R5, WRITEI	SET TSOM IN USYRT
3195	00742	120403				TOSRH		
3196	00742	000001	007712			TSOM JSR	DE UDITET	:LOAD SYNCH CHAR INTO TX BUF
3197	00742	004537	003712			TOSAL	M2'MWTIET	STOND STREET CHAN THIS IX BOY
3198	00743	000556				SYNCH		
2133	00743 00743 00743	004537	006014			JSR	RS,CKTBHT	:CHK FOR TBHT = 0
3200	00744	2 000000	000014			0	NJ, GRIGITI	JOHN FOR TOTTI - 0
2501	00744	103427				BCS	78	IF ERROR, EXIT SUBROUTINE
3203	00744	005001				CLR	R1	INIT CYCLE COUNTER
3204	00745	004537	012072		44:	JSR	R5,STEPLU	INIT CYCLE COUNTER CLOCK LU FOR 1 CYCLE
3205	007454	000001				1		
3206	007454 007454 007464 007464 007474	000001 004537 122000 000000 132737	003566			JSR	RS, READI	READ USYRT STATUS REG
3207	00746	122000				USTATR		
3208	00746	000000			54:	BITB	0	
3209	007466	132737	000100	007464		STIB	OTBMT,5\$	
3210	007474	001010				BNE	61	IBR IF YES
3211	007470	005201				INC	R1	INCR CYCLE COUNTER
3212	00750	020127	000003			CHP	R1.03	SEE IF 3 CYCLES DONE YET
3213	00750	002761				BLT	44	IBR IF LESS THAN 3 CYCLES
3214	00750	004537	006014			JSR	RS,CKTBMT	GO STACK "TONT NOT SET" MSG
3215	00751	2 000001				1	94	TE PROPE PUTT CLOSOLITTLE
3216	00751	103403	-			BCS	76	IF ERROR, EXIT SUBROUTINE
3217	00751	004537	005514		64:	JSR	RS,CKTACT	CHK FOR TXACT = 1
3210	00752	012601			74:	MOV	(SP)+,R1	RESTORE R1
3219	00752	012601			74:	RTS	R5	RETURN (IF C = 1, WE HAD AN ERROR)
3221	00/32	000203				MIS	NJ	INPIDENT (TE C - T) HE IND MA ENHAN)
3196 3197 3198 3199 3200 3201 3202 3203 3204 3205 3206 3207 3208 3209 3210 3211 3212 3213 3214 3215 3216 3217 3216 3219 3220 3221 3221	00753/	000142			201:	TYPHIR	EN!TTLOOP	DEFAULT VALUE FOR VIAORB: ENABLE
3223 3224	30133	3-100146			201.	I ALIV. NA		TX AND RX ON USYRT, ASSERT RTS. DTR
2554								

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MACY11 30A(1052) 12-JUL-84 11:12 PAGE 79
CVDHECO DHV11 LINE UNIT DIAGS
                                        .... CKLPBK -- DETERMINE IF TEST CAN BE RUN
              12-JLL-84 10:56
CVDMEC.P11
                                        .SBTTL .... CKLPBK -- DETERMINE IF TEST CAN BE RUN
  3225
                                       3226
                                       IN CKLPBK - THIS SUBROUTINE DETERMINES IF THE TEST CALLING IT CAN BE RUN. THE
  3227
                                                TEST PASSES THE DESIRED MODEM INTERFACE TYPE IN THE WORD FOLLOWING THE
                                       :0
  3228
                                               CALL, AND IF A PROPER EXTERNAL LOOPBACK HAS BEEN PROVIDED BY THE
                                       ..
  3229
                                                OPERATOR FOR THAT INTERFACE. AND IF THE BAUD RATE IS CORRECT. A RETURN
                                       ..
  3230
                                               IS MADE WITH THE C BIT CLEARED, TO RUN THE TEST. IF NOT, A RETURN IS
                                       :
  3231
                                               MADE WITH THE C BIT SET TO 1, SO THAT THE TEST CAN BE SKIPPED.
                                       :0
  3232
                                        :
  3233
                                               IF BIT 15 IS SET IN THE WORD FOLLOWING THE CALL, THE TEST WILL NOT
                                        : .
  3234
                                               BE RUN LINLESS THE H3254 AND H3255 TEST CONNECTORS ARE INSTALLED.
                                        :.
  3235
                                        :
  3236
                                               IF THE PROGRAM PASSES 'O' IN THE WORD FOLLOWING THE CALL. THE SUBRIN
                                        :.
  3237
                                               WILL ATTEMPT TO RUN WHICHEVER MODEM INTERFACE IS SELECTED BY CABLE
  3238
                                        :.
                                               OR TEST CONNECTOR.
                                        :0
  3239
  3240
3241
                                        : 4
                                               CALLING SEQUENCE :
                                        :0
  3242
3243
3244
                                       ..
                                                  JSR R5, CKLPBK
                                                   . MORD <DESIRED MODEM INTERFACE INFO>
                                       :
                                        :0
  3245
3246
3247
                                        CKLPBK:
        007532
                                                                       :SEE IF H3254.5 CHECK IS DESIRED
                                                BIT
                                                        OTCCHEK, (R5).
                032725
        007532
                        100000
                                                                        BR IF NOT
                                                BEQ
       007536
  3248
                001407
                                                                        SEE IF H3254.5 INSTALLED
                                                TST
                                                        TSTCON
  3249
                        002472
        007540
                005737
                                                                        BR IF NOT
  3250
        007544
                001002
                                                        18
                                                JP
                                                                        BR TO RUN TEST
  3251
        007546
                000137
                        010072
                                                                        GO TO SKIP TEST
  3252
        007552
                        010076
                                                JPP
                                                        48$
                000137
                                                       LPBK, SKIP TEST
                                        : IF NO EXTERNAL
  3253
3254
                                                                        :SEE IF NO LPBK
                                                        TSTCON, 44
                                                CHP
                023727
                        002472 000004
                                       24:
        007556
  3255
3256
3257
3258
                                                                        BR IF LOOPBACK
                                                BNE
                001002
                                                        3$
        007564
                                                                        GO TO SKIP TEST
                                                        48#
        007566
               000137
                        010076
                                        : *** SEE IF AN INTERFACE IS REQUESTED ***
  3259
                                                        -2(R5), DINTGRL ; SEE IF INTEGRAL MODEM REQUESTED
                       177776 000001
                                                CHP
        007572
                026527
                                       34:
  3261
3262
3263
3264
3265
                                                                        BR IF INTGRL MODEM REQUESTED
                                                860
                001406
        007600
                                                        -2(RS), WEIAV35 ; SEE IF V.35 OR EIA REQUESTED
                       177776 000002
                                                CHP
        007602
                026527
                                                                        BR IF V.35 REQUESTED
                001422
                                                BEQ
                                                        16#
        007610
                                                                        INDNE REQUESTED, FIND AN INTERFACE TO TEST
                                                        321
               000137
                                                JMP
                        007742
        007612
  3266
3267
                                        :SEE IF
                                               INTEGRAL MODEM CAN BE RUN
                                                                        SEE IF MB064
                                                TST
                                                        BROTYP
        007616
               005737
                        002470
                                                        19
                                                                        :BR IF M8064
                                                BEQ
  3268
                001402
        007622
                                                JAP
TST
                                                                        IMRONG OPTION, GO TO SKIP TEST
                                                        421
  3269
        007624
                000137
                        010040
                                                                        ISEE IF H3254, H3255 USED
                                                        TSTCON
  3270
        007630
                        002472
                                        108:
                005737
                                                                        BR IF YES
  3271
                                                BEQ
                                                        12#
        007634
                001406
                                                                        SEE IF OPERATOR SPEC'D INTEGRAL MODEM
                                                        TSTCON. #1
                                                CMP
                        002472 000001
                                        154:
  3272
                023727
        007636
                                                                        BR IF YES, TO RUN TEST
                                                BEQ
                                                        12#
  3273
        007644
                001402
                                                                        IMRONG INTERFACE, GO SKIP TEST
                                                        40$
  3274
        007646
                000137
                        010006
                                                JMP
                                                                        GO TO RUN TEST
                                        124:
  3275
        007652
                000137
                        010072
  3276
                                                       EIA CAN BE RUN
                                        SEE IF V.35 OR
  3277
                                                                        :SEE IF M8053 BOARD
                                                        BRDTYP
                                        164:
                                                TST
  3278
        007656
                005737
                        002470
                                                                        1BR IF M8053
                                                        18#
        007662
                                                BNE
  3279
                001002
                                                                        IMRONG OPTION, GO TO SKIP TEST
        007664
                                                        428
                        010040
                000137
```

CVOPECO.	DHV11	LINE UNIT	DIAG3 10:56	MACY11	30A(1052) 12-JU	-84 11:12 PAGE ETERMINE IF TEST	CAN BE RUN		324 //
3261	007670	005737	002472		184:	TST	TSTCON 234	SEE IF H3254, H3255 USED		
3505	007674		010072		201:	JP	461	GO RUN THE TEST		
3503	007676	023727	002472	200000	234:	CHP	TSTCON, #3	SEE IF OPERATOR SPEC'D V.35		
3204	007710	001006	005415	000003	234:	BNE	284	IND TE MO		
3205	007712	023727	002470	000001		OP	BROTYP, #1	ISR IF NO TESTOOM MATCH BROTYP?		
3207	007720		0054.0	*******		BEQ	201	IYES: RUN TEST		
3288	007722		010006			JPP	404	IMPONG INTERFACE, GO SKIP TEST		
3289										
3290	007726	023727	002472	000002	284:	CIP	TSTCON, 02	ISEE IF OPERATOR SPEC'D EIA		
3291	007734	001760				BEQ	204	IBR IF YES, TO RUN EIA		
3292	007736	000137	010006			JPP	401	IMRONG INTERFACE, GO SKIP TEST		
3293										
3292 3293 3294 3295 3297 3298 3299 3290 3291 3292 3293 3294 3296 3297 3296 3299 3300 3301 3302 3303 3304 3305 3306 3307 3306 3307 3308					1000 MD	INTERFA	CE REQUESTED - FI	IND ONE TO TEST ***		
3275	007740	000333	000470		724.	707	000TV0			
3270	007742		002470		324:	TST	BROTYP	ISEE IF INTEGRAL MODEM SELECTED		
327/	007750	001343 000137	007652			JP	164	IBR IF NOT (TEST FOR V35/EIA) SEE IF INTEGRAL MODEM CAN BE R		
3270	001130	000121	007632			J.	15.	ISEE IT INTEGRAL HODEN CAN BE N	UN4	
3277					PRINT		RATE SPECIFIED	•		
3301	007754				384:		, mile 2, cos, sep.			
3302	007754	023727	002412	000001		CIP	STARES, #1	SEE IF THIS IS FIRST PASS SINC	E STA OR	RES
3303	007762					BNE	504	IBR IF NOT, TO SKIP PRINTING		
3304	007764					PRINTF	OFHT30			
3305	007764	012746	013762						MOV	OFHT30, -(SP)
3306	007770	012746	000001						HOV	01,-(SP)
3307	007774	010600							HOV	SP,RO
3308	007776	104417							TRAP	CSPNTF
3309	010C00	062706	000004						ADD	64,SP
3310	010004	000434			-	BR	481	GO TO PRINT "TEST NOT RUN"		
3311	010006					-TIAMOLE	R COMMECTOR TYPE	PASCILIEN.		
3312 3313	010006	023727	002412	000001	408:	CIP	STARES, 01	SEE IF THIS IS FIRST PASS SINC	E CTA 00	DEC
3314	010014	001046	005475	000001		BNE	504	BR IF NOT, TO SKIP PRINTING	E SIN UN	MES
3315	010016	0020-0				PRINTF	AFMT31	1 00000000		
3316	013016	012746	014017						HOV	OFHT31,-(SP)
3317	010022	012746	000001						MOV	#1(SP)
3318	010026	010600							MOV	SP,RO
3319	010036	104417							TRAP	CSPNTF
3320	010032	062706	000004						ADD	64,SP
3321	010036	000417				BR	481	GO TO PRINT "TEST NOT RUN"		
3322										
3323	-	002202	*****	******			ION SPECIFIED,"			000
3324	010040	023727	002412	000001	424:	CIP	STARES, #1	SEE IF THIS IS FIRST PASS SINC	E SIA UK	MES
3323	010046	001031				PRINTF	504 6FHT32	IBR IF NOT TO SKIP PRINTING		
3325	010050	012746	014065			LMTMIL	erni 32		HOV	6FHT32,-(SP)
3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3326 3327 3328 3330 3331 3332 3333 3334 3333	010054	012746	000001						MON	01,-(SP)
3329	010060	010600	********						HOV	SP.RO
3330	010062	104417							TRAP	CAPNTF
3331	010064	062706	000004						ADD	64,SP
3332	010070					BR	481	GO TO PRINT "TEST NOT RUN"		
3333										
3334					1000 BR		E TO RUN TEST ***			
3335	010072	000241			461:	CLC		CLEAR C BIT TO RUN TEST		
3336	010074	000417				BR	526	EXIT		

CADIEC	DMV11	LINE UNIT	DIAG3 10:56	MACY11	30A(1052) 12-JL PBK C	A-84 11:12 PM ETERMINE IF TEST	GE 81 T CAN BE RUN		SEQ 80
3337 3338 3339					PRINT	ANCH HER	E TO SKIP TEST	•••		
3340 3341 3342 3343	010076 010076 010104 010106	023727	002412	000001	481:	CHP BNE PRINTF	STARES, #1 504 #FHT19, TSTNUM	SEE IF THIS IS FIRST PASS START IN THE SEE IF NOT, TO SKIP PRINTING	INCE STA O	R RES
3344 3345 3346 3347	010106 010112 010116 010122	013746 012746 012746 010600	002414 013452 000002						HOV HOV HOV	TSTNUM, -(SP) #FHT19, -(SP) #2, -(SP) SP, RO
3348 3349 3350 3351	010124 010126 010132 010134	062706	000006		504: 524:	SEC RTS	RS	SET C BIT TO SKIP TEST	TRAP	CAPNTF 06.SP
3352 3353 3354										

```
CVDMECO DMV11 LINE UNIT DIAGS MACY11 30A(1052) 12-JUL-84 11:12 PAGE 82
                                             ....TXCHAR -- TRANSMIT A CHARACTER
                12-JUL-84 10:56
CVDMEC.P11
                                              .SBTTL ....TXCHAR -- TRANSMIT A CHARACTER
                                              3356
                                              TXCHAR - THIS SUBROUTINE INITIATES TRANSMISSION OF A CHAR BY LOADING
THE USYRT TOSAL WITH THE DATA PASSED IN THE LO BYTE OF THE WORD
FOLLOWING THE CALL, AND CLOCKS THE LINE UNIT WITH THE NUMBER OF CYCLES
PASSED IN THE SECOND WORD FOLLOWING THE CALL. THE PROGRAM CONTINUALLY
HONGTORS TENT AND TXACT THROUGHOUT THE PROCESS.
  3357
  3358
  3359
  3360
3361
3362
3363
                                                       IF THE SUBMOUTINE DETECTS AN ERROR, THE ERROR INFORMATION IS STACKED, AND THE C-BIT SET, WHICH LEAVES THE ERROR REPORTING AT THE DISCRETION OF THE CALLING ROUTINE OR SUBMOUTINE.
  3364
3365
3366
3367
                                                       CALLING SEQUENCE :
                                                      JSR
. WORD
                                                              3368
                                              10
                                                       .MORD <NAMER OF CYCLES TO CLOCK (IN LO BYTE)>
<SWITCH TO DISABLE INITIAL TBMT-0 CHECK (MSB IN HI BYTE)>
  3369
                                              ..
                                              10
  3370
                                              3371
  3372 010136
                                                                R1,-(SP)
R2,-(SP)
                                                                                   SAVE R1
  3373 010136 010146
                                                               RS, WRITEI
                                        16:
  3374 010140 010246
                                                       MCV
  3375 010142 012537 010154
                                                                                   IGET DATA FOR TOSAL
                                                       MOA
                                                       JSR
TDSRL
                                                                                   ILOAD DATA INTO TOSAL
  3376 010146
                  004537
                           003712
                  120402
  3377 010152
  3378
        010154
                                                        . WORD
                                                                R1
R2
                                                       CLR
  3379
         010156
                  005001
                                                                                   INIT CYCLE COUNT AND CLEAR C BIT
  3380
3381
3382
3383
3384
3385
                                                                                   CLEAR REQ'D CYCLE COUNT
GET DESIRED NO. OF CYCLE
ONE IF NO CLOCKING DONE
CHECK TXACT = 1
                  005002
         010160
                                                                (R5)+,R2
6#
R5,CKTACT
                                                       HOVB
         010162
         010164
                                                       BEQ
                  001425
                  004537 005514
                                            34:
                                                        JSR
         010166
                  000001
         010172
                                                                                   OR TO EXIT IF ERROR
         010174 103421
                                                                R1.R2
                                                                                   ISEE IF REQUIRED CYCLES DONE YET
  3386
         010176 020102
  3387
                                                                                   IBR IF YES
                  001414
         010200
  3388
3389
                                                                 (R5), INCTEMT
                                                                                   14 CHECK FOR "TBMT"O CHECK" DISABLE
         010202 131527 000200
  3390
                                                                                   10 BR IF MSB IS NOT SET
         010206
                  001004
  3391
                                                                                   ICHECK FOR TEMT - 0
                                                        JSR
  3392
         010210
                                                                 RS, CKTOMT
                  004537
                          006014
  3393
         010214
                  000000
  3394
3395
         010216
                  103410
                                                                                   IBR TO EXIT IF ERROR
                                                                64
RS.STEPLU
        010220
010224
010226
                  004537
000001
                                            78:
                                                                                   CLOCK LU FOR 1 CYCLE
                           012072
  3396
3397
3398
3399
                                                       INC
                                                                                   INCR CYCLE COUNT
                  005201
         010230
                  000756
                                                                RS, CKTBHT
         010232
                                                                                   CHK TBMT . 1
                                     54:
                  004537
                           006014
  3400
3401
3402
3403
3404
3405
         010236
                  000001
                                           64:
                                                                (SP)+,R2
(SP)+,R1
                                                                                   RESTORE R2
         010240
                  012602
         010242 012601
                                                                                   ADJUST RS FOR SANE RETURN
         010244 005205
                                                                                   RETURN (WITH C BIT - 1 IF ERROR)
         010246 000205
  3406
  3407
```

3408

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CVDMECO DMV11 LINE UNIT DIAGS MACY11 30A(1052) 12-JUL-84 11:12 PAGE 83
                                              ....TXCTRL -- CONTROL MESSAGE TRANSMISSION (TDSRH)
               12-JUL-84 10:56
CVDMEC.P11
                                              .SBTTL ....TXCTRL -- CONTROL MESSAGE TRANSMISSION (TDSRH)
  3410
3411
                                              ** TXCTRL - THIS SUBROUTINE ALLOWS CONTROL OF MESSAGE TRANSMISSION BY LOADING THE USYRT TOSRH WITH THE DATA PASSED IN THE LO BYTE OF THE WORD FOLLOWING THE CALL, AND CLOCKS THE LINE UNIT WITH THE NUMBER OF CYCLES PASSED IN THE SECOND WORD FOLLOWING THE CALL. THE PROGRAM CONTINUALLY
  3412
  3413
  3414
                                                       MONITORS TONT AND TXACT THROUGHOUT THE PROCESS.
  3415
                                                      IF THE SUBROUTINE DETECTS AN ERROR, THE ERROR INFORMATION IS STACKED, AND THE C-BIT SET, WHICH LEAVES THE ERROR REPORTING AT THE DISCRETION OF THE CALLING ROUTINE OR SUBROUTINE.
  3416
3417
3418
                                              ..
                                              ..
                                              ..
  3419
                                                       CALLING SEQUENCE :
  3420
                                                       JSR
. WORD
                                                               RS, TXCTRL
  3421
                                              10
  3422
                                             ..
                                                                <DATA FOR TOSRH IN LO BYTE>
  3423
                                                                <NUMBER OF CYCLES TO CLOCK>
                                              ..
                                              3424
  3425
                                              TXCTRL:
        010250
  3426
                                                                R1.-(SP)
                                                                                  SAVE R1
        010250
                  010146
  3427
3428
3429
3430
                                                                R2,-(SP)
(R5)+,24
                                                                                  ISAVE R2
        010252
                                                      MOV
                  010246
                                                                                  GET DATA FOR TOSAH
         010254
                  012537
                           010266
                                                      MOV
         010260
                  004537
                           003712
                                                       JSR
                                                                RS. WRITEI
                                                                                  LOAD DATA INTO TOSRH
                                                       TOSRH
        010264
                  120403
  3431
3432
3433
3434
3435
3436
                                             24:
        010266
                  000000
                                                       . WORD
         010270
                  005001
                                                       CLR
                                                                                  INIT CYCLE COUNT AND CLEAR C BIT
        010272
                  012502
                                                       HOV
                                                                (R5)+,R2
                                                                                  GET DESIRED NO. OF CYCLES
                                                                                  BR IF NO CLOCKING DONE
                                                       BEQ
        010274
                  001422
                                                                RS.CKTACT
                                             34:
                           005514
                                                       JSR
        010276
                  004537
         010302
                  000001
  3437
                                                                                  IBR TO EXIT IF ERROR
        010304
                  103416
                                                                R1,R2
  3438
                                                                                  ISEE IF REQUIRED CYCLES DONE YET
        010306
                  020102
  3439
                                                                RS, CKTBHT
        010310
                  001411
                                                                                  BR IF YES
  3440 010312
                           006014
                                                                                  CHECK FOR TBMT - 0
                  004537
  3441
        010316
                  000000
  3442 010320
3443 010322
                                                                                  IBR TO EXIT IF ERROR
                  103410
                                                               64
RS,STEPLU
                                                                                  ICLOCK LU FOR 1 CYCLE
                  004537
                           012072
                  000001
  3444
        010326
  3445
                                                       INC
                                                                                  INCR CYCLE COUNT
        010330
                  005201
  3446
                                                                                  KEEP CLOCKING
         010332
                  000761
                                                       BR
                                                                34
  3447
3448
                                                                RS, CKTBMT
                                                                                  ICHK TBMT . 1
                  004537
                                                       JSR
        010334
                          006014
                                             54:
         010340
                  000001
  3449
3450
                                                                (SP)+,R2
(SP)+,R1
         010342
                                                       MOV
                  012602
                                                                                  RESTORE R2
         010344
                                                       MOV
                                                                                  RESTORE R1
                  012601
  3451
3452
                                                                                  RETURN (WITH C BIT - 1 IF ERROR)
         010346
                  000205
  3453
```

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MACY11 30A(1052) 12-JUL-84 11:12 PAGE 84
CVDMECO DMV11 LINE UNIT DIAGS
                                             ....RXCHAR -- RECEIVE A CHARACTER
CVDMEC.P11
               12-JUL-84 10:56
                                             .SBTTL ....RXCHAR -- RECEIVE A CHARACTER
  3454
                                             3455
                                             * RXCHAR - THIS SUBROUTINE READS THE USYRT ROSR AND CHECKS THE CONTENTS
  3456
                                                      AGAINST THE DATA PASSED IN THE MORD FOLLOWING THE CALL
  3457
                                                     IF BITO - O IN THE SECOND WORD FOLLOWING THE CALL, THE RERR BIT IS NOT CHECKED AGAINST THE EXPECTED VALUE. THEN, IT CLOCKS THE LINE UNIT FOR THE NO. OF CYCLES PASSED IN THE THIRD WORD
  3458
  3459
  3460
                                                      FOLLOWING THE CALL. THE PROGRAM CONTINUALLY MONITORS RDA AND RXACT.
  3461
                                                     IF THE SUBROUTINE DETECTS AN ERROR, THE ERROR INFORMATION IS STACKED, AND THE C-BIT SET, WHICH LEAVES THE ERROR REPORTING AT THE DISCRETION OF THE CALLING ROUTINE OR SUBROUTINE.
  3463
  3465
                                                     CALLING SEQUENCE :
  3466
                                                               RS, RXCHAR
                                                      JSR
  3467
                                                              <EXPECTED ROSAL IN LO BYTE, ROSAH IN HI BYTE>
<=0 FOR NO REAR CHK, =1 FOR REAR CHK>
<NUMBER OF CYCLES TO CLOCK (IN LO BYTE)>
                                                      . WORD
  3468
                                                      . MORD
  3469
                                                      . WORD
  3470
                                                               <SPECIAL DISABLE SWITCHES: NOCRDA,NFCRDA,NCRACT(IN HI BYTE)>
  3471
                                             ..
                                             3472
  3473
                                             RXCHAR:
        010350
                                                               R1.-(SP)
  3474
                                                                                 SAVE R1
        010350
                 010146
                                                               R2, -(SP)
                                                                                 SAVE R2
  3475
                                                      MOV
        010352
                  010246
                                                                                 READ ROSAH
                                                               RS, READI
  3476
        010354
                  004537
                           003566
                                                      JSR
  3477
         010360
                  120401
                                                      RDSRH
  3478
        010362
                  000000
                                             21:
                                                      . WORD
  3479
3480
        010364
                  004537
                           003566
                                                      JSR
                                                               RS.READI
                                                                                 READ ROSAL
                  120400
                                                      ROSRL
         010370
  3481
3482
                  000000
         010372
                                                      . WORD
                                             18:
                                                               (R5),R1
         010374
                  111501
                                                                                 IGET EXPECTED ROSAL
                                                               #177400.R1 ; MASK OFF UNUSED BITS
SAVLEN, #TXDL!RXDL; SEE IF 7-BIT CHARS BEING USED
  3483
         010376
                  042701
                            77400
                                                      BIC
  3484
3485
3486
         010402
                           002402
                                   000347
                  023727
         010410
                                                                                 ICR IF NOT 7-BIT CHARS
                  001005
                                                                                 ICLEAR 8TH BIT FOR COMPARE
         010412
                 142737
                           000200 010372
                                                               68117.1$
  3487
        010420
                           000200
                                                      BICB
                  142701
                                                               68117,R1
  3488
        010424
                                                                                 COMPARE RCV'D CHAR TO EXPECTED
                  123701
                           010372
                                             34:
                                                               14.R1
  3489
        010430
                                                      BEQ
                                                                                 IBR IF MATCH
                  001462
                                                               RS.READI
  3490
        010432
                                                                                 IREAD USYRT STATUS REG
                  004537
                           003566
  3491
                                                      USTATR
        010436
                  122000
  3492
         010440
                  000000
                                                       MORD
                                                               ATXU,44
  3493
         010442
                  132737
                           000002 010440
                                                      BITB
                                                                                 ISEE IF TX UNDERRUN OCCURRED
  3494
         010450
                  001421
                                                                                 BR IF NOT
                                                      BEO
  3495
                                                               07 REGNUM
        010452
                 012737
                           000007 002336
                                                      MOV
                                                                                 ISET USYRT REG NO. FOR STATUS REG
  3496
                                             ISTACK "TX UNDERRUN" ERROR
  3497
         010460
                                                               EM54 ERR12
                                                      GTDF
  3498
3499
3500
                                                                                          QUEUE "DEVICE FATAL" ERROR # 26
        010460
010466
                                                                                                                              OT.EDF.ERRTYP
                 012737
                           000001
                                    002172
                  012737
                           000032
                                    002174
                                                                                                                              #26, ERRNBR
                                                                                                                     MOV
                                                                                                                              DEMS4 . ERRMSG
  3501
         010474
                 012737
                           014626
                                    002176
                                                                                                                     MOV
                                                                                                                              MERR12. ERRBLK
  3502
                                                                                                                     MOV
        010502
                  012737
                           020714
                                    002200
  3503
                                                                                 ITAKE ERROR EXIT
        010510
                  000137
                           011610
                                                                                 ISET USYRT REG NO. FOR ROSRL
  3504
                                             54:
                                                               REGNUM
                                                      CLR
         010514
                  005037
                           002336
  3505
                                                      CLR
         010520
                  005037
                           002324
                                                               GDATA
                                                                                 SET EXPECTED DATA
  3506
         010524
                  110137
                           002324
                                                      MOVB
                                                               R1.GDATA
                           002326
                                                               BOATA
  3507
         010530
                  005037
                                                      CLR
                                                                                 ISET ACTUAL DATA
  3506
         010534
                  113737
                           010372
                                   002326
                                                      MOVB
                                                               1 . BDATA
  3509
                                             ISTACK "RCV'D DATA MISCOMPARE" ERROR
```

CVDMECO CVDMEC.F		INE UNIT	DIAG3 10:56	MACY11		2) 12-JU	L-84 11:12 PA	GE 85 TER	258 04
	010542					GTDF	EM34,ERR10		
3511 3512 3513 3514	010542 010550 010556	012737 012737 012737	000001 000033 014502	002172 002174 002176				HOV 4	T.EDF, ERRTYP 27, ERRNBR EM34, ERRMSG
3515	010564	012737	020364	002200				HOV	ERR10, ERRBLK
3515 3516 3517	010572	000137	011610			JMP	201	;TAKE ERROR EXIT	
3517	010576	116501	000001		64:	HOVB	1(R5),R1	IGET ROSRH	
3518	010602	042701	177400			CHPB	#177400,R1 24,R1	MASK OFF UNUSED BITS COMPARE RCV'D STATUS TO EXPECTED	
3520	010612	001016	010305			BNE	74	IBR IF HISMATCH	
3518 3519 3520 3521 3522 3523 3524 3525 3526 3527 3526 3529 3530 3531 3532 3533 3534 3535 3536 3537 3536 3537 3536 3537 3536 3537 3540 3541 3542 3543	010614	000137	011474			JHP	178	CONTINUE	
3522	010620	012737	000001	002336		MOV	#1.REGNUM	ISET USYRT REG NO. FOR ROSRH	
3525	010626	005037 110137	002324			CLR MOVB	GDATA R1,GDATA	SET EXPECTED DATA	
3525	010636	005037	002326			CLR	BOATA	SET ACTUAL DATA	
3526	010642 010650	113737	010362	002326		HOVB	24.BDATA		
3527	010650	012737	000001	002336	74:	MOV	#1,REGNUM	ISET REG NO. FOR PRINTOUT	
3526	010656 010664	032765	000001	000002		BEQ	eRÉRCHK,2(R5)	ISEE IF RCV ERROR BIT SHOULD BE IGNORED IBR IF YES	
3530	010001	002441			CHECK	RERR BIT			
3531	010666	132701	000200			BITB	ORERR,R1	ISEE IF EXPECTED BIT = 1	
3532	010672	001022	000000	010763		BNE	86	IBR IF YES	
3533	010674	132737	000200	010362		BEQ	eRERR,24	SEE IF ACTUAL BIT = 0	
3535	020105	002440			STACK	"RERR NO	T CLEARED" MSG	10 2	
3536	010704					GTDF	EM35,ERR12		
3537	010704	A12777	000001	002172				QUEUE "DEVICE FATAL" ERROR # 28	T.EDF, ERRTYP
3539	010704	012737 012737	000001	002172					26 ERRNBR
3540	010720	012737	014530	002176				HOV 4	EM35, ERRMSG
3541	010726	012737	020714	002200					ERR12, ERRBLK
3542	010734	000137	011610	010362		BITB	201 4RERR,21	; TAKE ERROR EXIT ; SEE IF ACTUAL BIT = 1	
	010740	132737	000200	010305	04:	BNE	94	BR IF YES	
3545		******			STACK		T SET" MSG		
3546	010750					GTDF	EM36,ERR12	ALEXE HARMAN FATAL II CORON A CO.	
3547	010750	012737	000001	002172				1 QUEUE "DEVICE FATAL" ERROR # 29	T.EDF, ERRTYP
3549	010756	012737	000001 000035	002172 002174				MOV	29 ERRIBR
3550	010764	012737	014551	002176				HOV 4	EM36, ERRMSG
3551	010772	012737	020714	002200			204		ERR12, ERRBLK
3225	011000	000137	011610		CHECK	ROR BIT	201	;TAKE ERROR EXIT	*
3554	011004	132701	000010		94:	BITB	eROR,R1	SEE IF EXPECTED BIT - 1	
3555	011010	001022				BNE	10#	BR IF YES	
3556	011012	132737	000010	010362		BITB	eROR,24	SEE IF ACTUAL BIT = 0	
3554	011020	001440			STACK	BEQ "ROR NOT	CLEARED" MSG	BR IF YES	
3559	011022				James	GTDF	EM16, ERR12		
3544 3545 3546 3547 3548 3549 3550 3551 3552 3553 3554 3555 3556 3557 3556 3557 3560 3561 3562 3563								; QUEUE "DEVICE FATAL" ERROR ● 30	
3561	011022	012737	000001	002172					T.EDF, ERRTYP
2205	011030 011036	012737 012737	000036 014340	002174					30, ERRNBR EM16, ERRMSG
356.3								1104	
3563 3564 3565	011044	012737	020714	002200		JHP	201		ERR12, ERRBLK

CVDMECO DMV11 LINE UNIT DIAG3 CVDMEC.P11 12-JUL-84 10:56	MACY11 30A(1052) 12-JUL-84 11:12 PAG RXCHAR RECEIVE A CHARACT	GE 86 TER	SEQ 85
3566 011056 132737 000010 3567 011064 001016 3568 7569 011066 3570	010362 104: BITB #ROR.2# BNE 11# STACK "ROR NOT SET" MSG GTDF EM14.ERR12	SEE IF ACTUAL BIT - 1	
3570 3571 011066 012737 000001 3572 011074 012737 000037 3573 011102 012737 014324 3574 011110 012737 020714	002172 002174 002176 002200	BUEUE "DEVICE FATAL" ERROR # 31 HOV HOV HOV HOV	OT.EDF, ERRTYP O31, ERRNBR OEM14, ERRMSG OERR12, ERRBLK
3575 011116 000137 011610 3576	CHECK RANGA BIT	;TAKE ERROR EXIT :SEE IF EXPECTED BIT = 1	VENIAL JERNOCK
3578 011126 001022 3579 011130 132737 000004 3580 011136 001440 3581	010362 BITB #RABGA,2# BEQ 13# STACK "RABGA NOT CLEARED" MSG	BR IF YES SEE IF ACTUAL BIT - 0 BR IF YES	
3582 011140 3583 3584 011140 012737 000001 3585 011146 012737 000040	GTQF EM39, ERR12 002172 002174	: QUEUE "DEVICE FATAL" ERROR # 32 HOV HOV	OT.EDF, ERRTYP 032, ERRNBR
3586 011154 012737 014566 3587 011162 012737 020714 3588 011170 000137 011610	002176 002200	TAKE ERROR EXIT	4EM39, ERRMSG 4ERR12, ERRBLK
3589 011174 132737 000004 3590 011202 001016 3591 3592 011204	010362 124: BITB #RABGA,24 BNE 134 STACK "RABGA NOT SET" MSG GTDF EM40,ERR12	SEE IF ACTUAL BIT = 1 BR IF YES	
3593 3594 011204 012737 000001 3595 011212 012737 000041 3596 011220 012737 014610 3597 011226 012737 020714 3596 011234 000137 011610	002172 002174 002176 002200	# QUEUE "DEVICE FATAL" ERROR ● 33 HOV HOV HOV HOV	OT.EDF, ERRTYP 033, ERROBR 0EM40, ERRMSG 0ERR12, ERRBLK
3598 011234 000137 011610 3599 3600 011240 132701 000002 3601 011244 001022	CHECK REOM BIT 134: BITB GREOM,R1 BNE 144	:TAKE ERROR EXIT :SEE IF EXPECTED BIT = 1 :BR IF YES	
3602 011246 132737 000002 3603 011254 001440 3604	010362 BITB #REOM,2# BEQ 15# STACK "REOM NOT CLEARED" MSG	SEE IF ACTUAL BIT - 0	
3602 011246 132737 000002 3603 011254 001440 3604 3605 011256 3606 3607 011256 012737 000001 3608 011264 012737 000042 3609 011272 012737 014444 3610 011300 012737 020714 3611 011306 000137 011610 3612 011312 132737 000002 3613 011320 001016 3614 3615 011322 012737 000001	GTDF EM30, ERR12 002172 002174 002176 002200	: QUEUE "DEVICE FATAL" ERROR # 34 HOV HOV HOV HOV	OT.EDF.ERRTYP 034,ERRNBR 0EM30,ERRMSG 0ERR12,ERRBLK
3611 011306 000137 011610 3612 011312 132737 000002 3613 011320 001016 3614 3615 011322	O10362 144: BITB #REOM,24 BNE 154 ;STACK "REOM NOT SET" MSG GTOF EM31,ERR12	SEE IF ACTUAL BIT = 1 BR IF YES	
3618 011330 012737 000043 3619 011336 012737 014465	002172 002174 002176	QUEUE "DEVICE FATAL" ERROR # 35 HOV HOV HOV	eT.EDF.ERRTYP e35,ERRNBR eEM31,ERRMSG
3620 011344 012737 020714 3621 011352 000137 011610	002200 JMP 204	; TAKE ERROR EXIT	#ERR12, ERRBLK

	-	-	DTACE	MACVII	204/105	12. 88	-84 11:12 PAGE	87			SEQ 86
CYDNECO		LINE UNIT 12-JUL-84	10:56	HMCTIL	RX(HAR R	CEIVE A CHARACTE	R			
					CHECK	RSOM BIT					
3622 3623	011356	132701	000001		154:	BITB	eRSOM,R1	SEE IF	EXPECTED BIT - 1		
3624	011362	001022				BNE .	16#	BR IF	YES		
3625	011364		000001	010362		BEQ	#RSOM,2#	SEE IF	ACTUAL BIT = 0		
3626	011372	001440			STACK		CLEARED" MSG	ION Th	163		
3628	011374					GTDF	EM28,ERR12				
3629				000170					QUEUE "DEVICE FATAL" E	RROR # 36	AT COC COOTYO
3630	011374		000001	002172						HOV	#T.EDF,ERRTYP
3632	011410	012737	014406	002176						MOV	MEM28, ERRMSG
3633	011416	012737	020714	002200						MOV	MERR12, ERRBLK
3634	011424		011610	010362	164:	BITB	204 4RSOH,24	SEE TE	RROR EXIT ACTUAL BIT = 1		
3635	011436		000001	010305	104:	BNE		BR IF			
3637					STACK	"RSOM NO	SET" MSG				
3638	011440					GTDF	EM29,ERR12		QUEUE "DEVICE FATAL" E	20000 A 27	
3640	011440	012737	000001	002172				•	MOEDE DEVICE LYINE E	MOV	OT .EDF , ERRTYP
3641	011446	012737	000001	002174						MOV	#37,ERRIGR
3642	011454		014427	002176						HOV	MEM29, ERRMSG
3644	011462		020714	002200		JIP	20#	TAKE F	RROR EXIT	MOV	MERR12, ERROLK
3645	022410										
3646	011474		000004		17#:	HOVB			SIRED NO. OF CYCLES		
3624 3625 3626 3627 3628 3629 3630 3631 3632 3633 3634 3635 3636 3637 3638 3640 3641 3642 3643 3643 3644 3645 3646 3647 3648	011500	005001				CLR	R1	ITHT! C	YCLE COUNT		
3649	011502		000005	000040	184:	BITB	5(R5),48IT5	. IS R	KACT CHECK TO BE DISABL	ED ?	
3650	011510		005/54			BNE		BR I	YES		
3652	011512		005654			JSR 1	R5,CKRACT	the ru	R RACT = 1		
3650 3651 3652 3653 3654	011520					BCS	204	BR TO	EXIT IF ERROR		
3654 3655	A11533	020102			214.	CHP	01 02	.CEE TE	BEOLITEED CYCLES DOME Y	ET	
3656	011524	020102			314:	BEQ		BR IF	REQUIRED CYCLES DONE Y	-	
3657											
3658	011526	136527	000005	000200		BITB		SEE	IF INITIAL RDA CHECK DE	SIRED	
3660	011534 011536	001004 004537	006154			BNE JSR			R RDA - O		
3661	011542	000000	*******			0					
3658 3659 3660 3661 3662 3663 3664 3665 3666 3667 3668 3669 3670 3671	011544	103421				BCS	204	BR TO	EXIT IF ERROR		
3664	011546	004537	012072		224:	JSR	R5,STEPLU	CLOCK	LU FOR 1 CYCLE		
3665	011552	000001	3200.6			1					
3666	011554	005201				INC	R1	INCR C	YCLE COUNT		
3668	011556	000751				BR	184	1 COM I THE	UE CLOCKING		
3669	011560	136527	000005	000100	194:	BITB			INAL ROA CHECK TO BE SK	IPPED ?	
3670	011566	001004				BNE	30#	S BR I			
3671 3672	011570 011574	004537	006154			JSR 1	R5,CKRDA	CHK RD	1		
3673	011576					BCS	204	BR IF	ERROR		
3674			******		204		44 00	ETH 15	DET. 104 4000		
3675 3676	011600	062705 000241	000006		304:	ADD	46,R5	SET C	RETURN ADRS O FOR NO ERROR		
3677	011606	000403				BR	216	TAKE E	RROR-FREE EXIT		

CVDMECO DMV11 LINE UNIT DIAG3 MACY11 30A(1052) 12-JUL-84 11:12 PAGE 88 CVDMEC.P11 12-JUL-84 10:56RXCHAR -- RECEIVE A CHARACTER

3678	011610	062705	000006	201:	ADD SEC	46,R5	FIX UP RETURN ADDRESS
3679 3680 3681	011614 011616 011620	012602		21#:	MOV	(SP)+,R2 (SP)+,R1	RESTORE R2
3682 3683	011622	000205			RTS	R5	RETURN

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MACY11 30A(1052) 12-JUL-84 11:12 PAGE 89
CYDHECO DHV11 LINE UNIT DIAG3
                                             .... RCV1ST -- RECEIVE FIRST CHARACTER OF MESSAGE
               12-JUL-84 10:56
CVDMEC.P11
                                             .SBTTL .... RCV1ST -- RECEIVE FIRST CHARACTER OF MESSAGE
  3685
                                             * RCV1ST - THIS SUBROUTINE RECEIVES THE FIRST CHAR OF A MESSAGE AND MONITORS
  3686
                                                     THE STATUS OF THE RECEIVER. FIRST, A CHECK IS MADE FOR RXACT = 0, RDA = 0, RSA = 0, RSOM = 0. THEN, THE LINE UNIT IS CLOCKED UNTIL RDA = 1. THE PROGRAM CHECKS FOR THIS TO OCCUR WITHIN 3 CYCLES AFTER THE NO. OF CYCLES PASSED IN THE SECOND MORD FOLLOWING THE CALL. IF THE SUBROUTINE DETECTS AN ERROR, THE ERROR INFORMATION IS STACKED, AND THE C-BIT SET, WHICH LEAVES THE ERROR REPORTING AT THE DISCRETION OF THE CALLING ROUTINE OR SUBROUTINE.
  3687
  3688
  3689
  3690
                                             1.
  3691
  3692
  3693
                                             :.
  3694
                                             :*
                                                      CALLING SEQUENCE :
  3695
                                                      JSR
                                                               R5.RCV1ST
  3696
                                                               «EXPECTED RECEIVER CYCLE COUNT»
  3697
                                             3698
                                             RCV1ST:
  3699
        011624
  3700
        011624
                  010146
                                                      MOV
                                                               R1,-(SP)
                                                                                  : SAVE R1
  3701
       011626
                  010246
                                                      MOV
                                                               R2.-(SP)
                                                                                 SAVE R2
        011630
                  005001
                                                      CLR
                                                               R1
                                                                                  INIT CYCLE COUNT
  3702
                                                               (R5)+,R2
  3703
        011632
                  012502
                                                      MOV
                                                                                           GET CYCLE COUNT LIMIT
                  062702
004537
  3704
        011634
                                                               #3.R2
                                                               RS.CKRACT
        011640
                           005654
                                                       JSR
                                                                                  :CHK FOR RXACT = 0
  3705
                  000000
  3706
         011644
                                                      BCS
  3707
        011646
                  103446
                                                                                  BR TO EXIT IF ERROR
        011650
                                                               RS, CKRDA
                           006154
                                                       JSR
                                                                                  CHK FOR RDA = 0
  3708
                  004537
        011654
                  000000
  3709
  3710 011656
                  103442
                                                      BCS
                                                                                  1BR TO EXIT IF ERROR
                           006614
                                                               RS.CKSEOM
                                                       JSR
        011660
                  004537
                                                                                  CHK FOR RSOM = 0. REOM = 0
  3711
        011664
                  000000
  3712
                                                      BCS
                                                                                  BR TO EXIT IF ERROR
  3713
        011666
                  103436
                                                               RS.STEPLU
  3714 011670
                  004537
                           012072
                                             18:
                                                       JSR
                                                                                  CLOCK LU FOR 1 CYCLE
  3715 011674
                  000001
  3716
       011676
                  005201
                                                      INC
                                                                                  INCREMENT CYCLE COUNT
                                                               RS.READI
  3717
        011700
                  004537
                           003566
                                                       JSR
                                                                                  READ USYRT STATUS REG
  3718 011704
                  122000
                                                      USTATR
  3719
        011706
                  000000
                                                       WORD
                  132737
                                                                ORDA.24
        011710
                           000200 011706
                                                       BITB
                                                                                  SEE IF ROA SET YET
  3720
                                                                                  BR IF YES
  3721
        011716
                                                               R1.R2
                                                                                  ; SEE IF LIMIT EXCEEDED
  3722
        011720
                  020102
  3723
        011722
                  002762
                                                      BLT
                                                                                  BR IF NOT YET
                                                               R5.CKRDA
  3724 011724
                  004537
                           006154
                                                       JSR
                                                                                  IGO STACK "RDA NOT SET" MSG
  3725 011730
                  000001
                                                                                  BR TO EXIT IF ERROR
  3726 011732
                  103414
  3727 011734
                                                      CHP
                                                               R1.-2(R5)
                                                                                  ISEE IF LESS THAN REQUIRED CYCLES
                  020165
                           177776
                                             34:
                                                      BGE
  3728 011740
                  002004
                                                                                  BR IF NOT
                                                               R5, CKRDA
  3729 011742
                  004537
                           006154
                                                       JSR
                                                                                  IGO STACK "RDA NOT CLEARED" MSG
  3730 011746
                  000000
  3731 011750
                  103405
                                                      BCS
                                                                                  BR TO EXIT IF ERROR
                                                               6$
```

CVDMECO CVDMEC.		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(105	2) 12-J	UL-84 11:12 RECEIVE FIRST	PAGE 90 CHARACTER OF MESSAGE	SEQ 89
3732 3733 3734 3735 3736 3737 3738 3739 3:40	011752 011756 011762 011764 011766 011770	000001 103401 000241 012602 012601	005654		4#: 5#: 6#:	JSR 1 BCS CLC MOV MOV RTS	R5,CKRACT 6# (SP)+,R2 (SP)+,R1 R5	#CHK FOR RXACT = 1 #BR TO EXIT IF ERROR #CLEAR C BIT FOR NO ERRORS #RESTORE R2 #RESTORE R1 #RETURN (WITH C BIT = 1 IF ERROR)	

CVDMEC	P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052) 12-JU RAN S	L-84 11:12 PA HUT DOWN TRANSM	NGE 91 NITTER/RECEIVER
3741 3742 3743 3744 3745 3746 3747 3748 3749 3750 3751					ENTR	AN - THI CLOCKIN FOLLOWI RECEIVE IF THE IS STAC DISCRET	S SUBROUTINE TE IG THE LINE UNIT ING THE CALL, AN IR TO BE SHUT DO SUBROUTINE DETE XED, AND THE C- ION OF THE CALL SEQUENCE:	TRANSMITTER/RECEIVER PROTECTION FOR THE NUMBER OF CYCLES PASSED IN THE WORD OF CHECKING FOR THE USYRT TRANSMITTER AND NAM. ECTS AN ERROR, THE ERROR INFORMATION BIT SET, WHICH LEAVES THE ERROR REPORTING AT THE LING ROUTINE OR SUBROUTINE.
3751 3752 3753						MSB S		LOMER BYTE - <no. clock="" cycles="" of="" to=""></no.>
3754 3755	011772				ENTRAN:			
3756 3757 3758 3759	012000	105725	012050	012042		MOVB TSTB BPL	#TTL00P,1# (R5)+,2# (R5)+	; INIT DEFAULT VIAOR8 (TTLOOP-1) ;GET DESIRED # OF TICKS (LOMER BYTE) ;SEE IF MSB SET (TTLOOP DISABLE BIT) ;IS IT?
3760 3761	012010	005037	012042 005514		46:	CLR JSR	RS,CKTACT	IF YES: CLEAR VIAORB VALUE
3762 3763 3764	012020 012024 012030	000001 103422 004537	005654			BCS JSR	68 RS,CKRACT	IBR IF ERROR ICHK FOR RXACT = 1
3765 3766	012030	000001				BCS	61	
3767 3768	012040	004537 120000 000002	003712			JSR VIAORB	RS, WRITEI	CLEAR THEN AND RHEN IN USYRT
3769 3770	012042	000002 004537	012072		16:	TTL00P JSR	RS.STEPLU	CLOCK LU FOR DESIRED NO. OF CYCLES
3771 3772	012052	000000 004537	005514		24:	JSR JSR	RS,CKTACT	CHK FOR TXACT = 0
3773 3774 3775 3776	012056 012062 012066	103403	005654			O BCS JSR	68 R5,CKRACT	BR IF ERROR CHK FOR RXACT = 0
3777 3778 3779	012070	000205			64:	ŘTS	R5	

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MACY11 30A(1052) 12-JUL-84 11:12 PAGE 92
CYDRECO DRIVII LINE UNIT DIAGS
                                             ....STEPLU -- CLOCK THE USYRT N TIMES
               12-JUL-84 10:56
CVDMEC.P11
                                             .SBTTL ....STEPLU -- CLOCK THE USYRT N TIMES
  3780
                                             3781
                                            STEPLU - THIS SUBROUTINE CLOCKS THE LINE UNIT FOR THE NUMBER OF CYCLES
PASSED IN THE WORD FOLLOWING THE CALL. THE VIA ACR MUST BE PREVIOUSLY
SET UP FOR TI ONE-SHOT MODE, AND THE TI LATCHES MUST BE PREVIOUSLY SET
TO CONTROL THE WIDTH OF THE CLOCK PULSE. ALL THAT THIS SUBROUTINE
DOES IS TO LOAD OOD INTO THE HI BYTE OF THE TI COUNTER, FOR THE
  3782
  3783
  3784
  3785
  3786
                                                      DESTRED NUMBER OF TIMES.
                                             :
  3787
                                             : 4
  3788
                                                      CALLING SEQUENCE :
                                             :
  3789
                                                               R5.STEPLU
                                                      JSR
                                             : .
  3790
                                                               <NUMBER OF CYCLES TO CLOCK>
                                                      . WORD
                                             :
  3791
                                             3792
                                             STEPLU:
         012072
  3793
                                                                                 :SAVE R1
                                                               R1,-(SP)
         012072 010146
  3794
                                                                                 INIT CYCLE COUNTER
                                                               (R5)+,R1
                                                      HOV
         012074 012501
  3795
                                                               RS. WRITEI
                                                                                 LOAD TIC-H, START COUNTER, CLOCK 1 CYCLE
                                                      JSR
         012076 004537
                           003712
                                             18:
  3796
                                                      VIAT1B
         012102 120005
  3797
                                                      000
                  000000
         012104
  3798
                                                      DEC
BNE
MOV
                                                                                 DECR CYCLE COUNTER
  3799
         012106 005301
                                                                                 BR IF ALL CYCLES NOT DONE YET
        012110 001372
  3800
                                                               (SP)+,R1
  3801
        012112 012601
                                                                                 RETURN
  3802
        012114 000205
  3803
  3804
  3805
  3806
```

3807 3808

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MACY11 30A(1052) 12-JUL-84 11:12 PAGE 93
CYDNECO DIVII LINE UNIT DIAGS
                                                GLOBAL ERROR REPORT SECTION
                12-JUL-84 10:56
CVDMEC.P11
                                                SBITL GLOBAL ERROR REPORT SECTION
  3809
  3810
                                                3811
                                                         THE GLOBAL ERROR REPORT SECTION CONTAINS ERROR MESSAGES
  3812
                                                1/
                                                         THAT ARE USED IN MORE THAN ONE TEST.
                                                11
  3813
                                                3814
  3815
  3816
                                                 MLIST BEX
         012116 047045 047045
                                               ENDERO: . ASCIZ
                                                                  / AND LANE
                                          000
                                                NEWLIN: ASCIZ
                                                                                      JUSED TO TERMINATE ERROR MESSAGES
         012123
                      045
                            000116
                                                         ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
                                                                  /MMAFAILING REG - STRASELED1/
/MMA EXPECTED: MOSKA ACTUAL: MOSKA XOR: MOS/
/MMATHE CONTENTS OF ALLSTRAST/
/MMS1MOSKSSMOSKSSMOSKSSMOS/
                                      040506
020101
052101
030523
                   047045
                            040445
         012126
                                                FMT2:
         012163
                            022516
                      045
                                                FMT3:
                            022516
                                                FMT4:
                      045
         012305
                      045
                            022516
                                                FMT4A:
                                          000
         012340
                   047045
                            052045
                                                FMT48:
                                                                   MINST/
                                                                   /MMS3403453403453403455403/
/MMA WHEN 4034A LOADED INTO BSEL1/
/MMA ATTEMPTING "M-LOOP" FUNCTION CODE 4024A (4T4A)/
         012345
                      045
                            022516
                                      032523
                                                FMT4C:
                                      020040
                                                          . ASCIZ
                   047045
                            040445
         012400
                                                FMTS:
         012443
                                                         . ASCIZ
                            022516
                                      020101
                      045
                                                FMTSA:
                                                         . ASCIZ
                                                                   MOMANDIAG 00030A FAILED/
                   047045
                            040445
                                      042115
         012530
                                               FMT7:
                                               FMT10: .ASCIZ
FMT10A: .ASCIZ
                            040445
         012560
                   047045
                                      020040
                                                                   MINIA EXPECTED: #084A ACTUAL: #084A XOR: #08/
                            020040
         012634
                                      051514
                   040445
                                                                   MA LSI ADDR: 408/
                                                                  045
                                                         .ASCIZ
         012655
                            022516
                                      034117
                                                FMT11:
                                               FHT11: ASCIZ
FHT12: ASCIZ
FHT13: ASCIZ
FHT14: ASCIZ
FHT15: ASCIZ
FHT15A: ASCIZ
FHT16: ASCIZ
FHT16: ASCIZ
FHT16: ASCIZ
FHT16: ASCIZ
FHT17: ASCIZ
                                      052045
022524
         012674
                            047045
         012703
                      045
                            022516
                                      047445
042504
042504
                            031123
         012751
                                                                  /MA DETECTED IN STATEA --/
/MA DETECTED & TEST PATTERN ELEMENT * 402/
/MASTHOSHSANOSHSHOSHSHOSHSHOSHSHOSHSHOS/
/MASTHOSHSHOSHSHOSHSHOSHSHOSHSHOS/
/MASTHOSHSHOSHSHOSHSHOSHSHOSHSHOS/
                  040445
040445
047045
                            020040
020040
052045
         012766
         013020
                                      047445
         013072
                      045
         013115
                            022516
                                      022524
                                                                           VALUE SENT TO NOR CONTROL REGISTER: #03/
         013157
                            020101
                                      020040
                                                                   /WOMA
                   047045
                            040445
                                      020040
                                                FWT17A: .ASCIZ
         013236
                                                                              VALUE READ FROM CONTROL REGISTER:
                                               FWT178: .ASCIZ
                            022516
                                      020101
                                                                              LSI-11 MEMORY ADDRESS ACCESSED:#08/
         013317
                      045
                                               FMT17C: ASCIZ
                  047045
                            040445
                                      020040
                                                                   MANA INFORMATION ON THE FIRST OF #DS#A ERRORS:/
         013372
                                                         . ASCIZ
                                                                   MINMATEST MOZNA NOT RUNNAV
                                      042524
         013452
                  047045
                            040445
                                                FMT19:
                  045
045
045
047045
045
045
                                                         .ASCIZ
                            022524
                                      033117
                                                                   /STHOGON
         013503
                                                FMT21:
                                                         . ASCIZ
                            022516
                                                                   MINIAFAILING REG: /
         013513
                                      043101
                                                FMT22:
                                                         ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
                            042501
         013535
                                      050130
                                                FMT23:
                                                                   MAEXPECTED: #03#SSMAACTUAL: #03#SSMAXOR: #03#N/
         013614
                                      047045
                                                                   MUTHUTAL
                                                FMT24:
                                      051445
047445
047045
                                                                   /#03#83#03#$3#03#$5#03#N/
/#$4#03#$$#03#$5#03#$5#03#N/
         013627
                            031517
                                                FHT25:
         013657
                            032123
                                                FHT26:
                            032045
042501
042524
040445
                   052045
         013712
                                                FMT27:
                                                                   MISTAL
                      045
045
                                      052130
         013721
                                                                   MARKTENDED REG AXMOIMA-MTMN/
                                                FMT28:
         013755
                                                FMT29:
                                                                   MINU
                                                                   MINIATOR BALD RATE SPECIFIED./
MINIATOR BALD RATE SPECIFIED./
                   047045
         013762
                                      047506
                                                FMT30:
                      045
                            022516
                                      044501
         014017
                                                FMT31:
                                      043101
                                                                   MINIAFOR OPTION SPECIFIED.
                                                         . ASCIZ
                            022516
                                                FMT32:
         014065
                      045
                                                         . ASCIZ
                                                                   MINIMATEST SDESA NOT RUNINA
         014117
                            022516
                                      052101
                                                FMT39:
                                                         . ASCIZ
                                      040506
                                                                   /MINIAFAILING RAM ADRS: #06#A (OCT)#N/
                   047045
                            040445
                                                FMT40:
         014150
                   051525
                                                          . ASCIZ
         014214
                            051131
                                      020124
                                                                   /USYRT NOT INITIALIZED BY PROGRAM RESET!
                                                EP2:
                                                          . ASCIZ
                                                EM3:
         014263
                      115
                            041511
                                      047522
                                                                   /MICRO-DIAG, FAILURE/
                            042122
                                      020131
                                                EM4:
                                                          . ASCIZ
                                                                   MARDY TIMEOUT!
         014307
                       115
         014324
                  047522
                            020122
                                      047516
                                                EM14:
                                                          . ASCIZ
                                                                  /ROR NOT SET/
```

```
CVDMECO DMV11 LINE UNIT DIAGS MACY11 30A(1052) 12-JUL-84 11:12 PAGE 94
                                                                                  GLOBAL ERROR REPORT SECTION
CYDREC.P11 12-JUL-84 10:56
                                                                                                   . ASCIZ
                                                 020122
                                                                 047516
                                                                                  EM16:
                                                                                                                 /ROR NOT CLEARED/
                               047522
                014340
                                                                                                  ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
                                     2522 042101
1522 046517
122 047523
2522 046517
122 047505
                                                                 053457
047040
020115
047040
                                                                                                                   'READ/WRITE DATA ERROR'
                014360
                                042522
                                                                                  E125:
                                                                                  E164:
                                                                                                                   /RSOM NOT CLEARED/
                                051522
                014406
                                                                                                                  /RSOM NOT SET/
/REOM NOT CLEARED/
                014427
                                042522
                014444
                                                                                  EM30:
                                                                                                                 /REOM NOT SET/
                014465
                                                                 020115
                                                                                  EM31:
                                                                                                                  /RCV'D DATA HISCOPPARE/
                                                                020104
                                041522
                                               023326
                                                                                  EM34:
                014502
                                                                                                                 MERR NOT CLEARED!
                                042522
                                               051122
                                                                                 E135:
                014530
                                                                047040 ERSS:
020122 ERS6:
020101 ERS9:
020101 ERM0:
042116 ERS4:
020124 ERS6:
052103 ERS9:
052103 ERF0:
052103 ERF0:
                               122 051105
040522 043502
040522 043502
054124 052440
051525 051131
                                                                                                                 /RERR NOT SET/
                                                                                               ASCIZ /ARGA NOT SET/
ASCIZ /ARGA NOT SET/
ASCIZ /ARGA NOT SET/
ASCIZ /TX UNDERRUN ERROR/
ASCIZ /TXACT NOT SET/
ASCIZ /TXACT NOT SET/
ASCIZ /TXACT NOT SET/
ASCIZ /TXACT NOT CLEARED/
ASCIZ /TRAT NOT CLEARED/
ASCIZ /TRAT NOT CLEARED/
ASCIZ /TRAT NOT CLEARED/
ASCIZ /ROA NOT SET/
ASCIZ /ROA NOT SET/
ASCIZ /ROA NOT SET/
ASCIZ /ROA NOT CLEARED/
ASCIZ /ROA NOT SET/
ASCIZ /ROA RENOR LOADING MICROCODE/
ASCIZ /CARRIER NOT SET/
ASCIZ /CARRIER NOT SET/
ASCIZ /CARRIER NOT CLEARED/
ASCIZ /CARRIER NOT CLEARED/
ASCIZ /CARRIER NOT CLEARED/
ASCIZ /CARRIER NOT SET/
ASCIZ /RECEIVER OVERNUM NOT SET/
ASCIZ /RECEIVER OVERNUM NOT SET/
ASCIZ /TSO BIT NOT SET/
ASCIZ /TSO BIT NOT CLEARED/
ASCIZ /TSO BIT NOT CLEARED/
                014551
                                                                                                                 MASSA NOT CLEARED!
                014566
                014610
                014626
                014650
                                 051525 051131

124 040530

124 040530

122 040530

122 040530

124 046502

041124 052115

122 040504

122 040523

122 040523

122 040523

122 046501
                014677
                014715
                014737
                                                                052103
052103
020124
047040
047040
047040
                014755
                                                                                  E172:
                               041124
                014777
                                                                                  E173:
                                                                                  2174:
                015014
                                                                                  E1175:
                015035
                015051
                                                                                  E1176:
                015071
                                                                                 B177:
                                                                047040
042440
044522
044522
                015105
                                                                                  EM78:
                015125
                                                                                  E179:
                                      103 051101
                015161
                                                                                  E180:
                                                                                  E161:
                                      103 051101
                015201
                                                                                 0162:
0163:
0164:
0165:
0166:
0166:
0166:
                                                                 046101
020115
047040
                015225
                                      111 053116
                                047515 042504
103 051524
                015262
                015311
                                               020123
                                052103
                                                                 047516
                015326
                                                                042511
044522
046505
                015342
                                040503
                                      103
115
                                                051101
                015403
015426
015450
                                               042117
042504
042503
                                047515
                                                                 020115
                                                                053111
044505
044502
                                042522
                                                                                  E1190:
                                                041505
                                       122
                015501
                                                                                  E191:
                015536
                                051524
                                                020117
                                                                                  EM100:
                               051524 020117 044502
                                                                                  EM101:
                                                                                  .SBTTL ....TEXT STRINGS FOR ERROR HANDLERS -- "TXT__"
                                                                                  1----- TEXT USED BY ERROR HANDLERS ------
                                                                                 TXT1: .ASCIZ /OSELO OSEL1 OSEL2 OSEL3/
TXT2: .ASCIZ / OSEL4 OSEL5 OSEL6 OSEL7/
TXT2A: .ASCIZ /OSEL10 OSEL11 OSEL12 OSEL13/
TXT2B: .ASCIZ / OSEL14 OSEL15 OSEL16 OSEL17/
TXT3: .ASCIZ / OYTE SELECT REG'S ARE:/
TXT4: .ASCIZ / SEL0 SEL2 SEL4 SEL6/
TXT4A: .ASCIZ / SEL10 SEL12 SEL14 SEL16/
TXT5: .ASCIZ / SEL10 SEL12 SEL14 SEL16/
                                              046105
020040
046105
020040
052131
                015602
                               051502
                                                                020060
                                020040
                015640
                                                                  051502
                                                                 030061
041040
020103
046103
                015702
                                       040
                015741
                016004
                                 041040
                                020040
                016034
                                                 051440
                                                 051440
                016074
                016135
                                       102
                                                       000
                                                                                                  .ASCIZ / SELECT REG'S ARE:/
                                                 042523
                                                                  042514
                016137
                                                                                 TXT6:
                                                               051511 TXT7: .ASCIZ / REGISTERS ORB ORA DORB DORA TICL TICH TILL TILH / 020040 TXT7A: .ASCIZ / TZCL TZCH SR ACR PCR IFR IER ORA /
                016162
                               051040
                                                043505
                016252 020040
                                               020040
```

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CVDMECO DMV11 LINE UNIT DIAGS MACY11 30A(1052) 12-JUL-84 11:12 PAGE 95
                                      ....TEXT STRINGS FOR ERROR HANDLERS -- "TXT___
               12-JUL-84 10:56
CVDMEC.P11
                                      041505
040525
020072
050040
020040
020040
042503
020124
                            050130
052103
051117
                  042440
040440
054040
                                                          .ASCIZ / EXPECTED:
         016342
                                                TXT8:
                                                TXT9: ASCIZ / ACTUAL:
TXT10: ASCIZ / XOR:
TXT11: ASCIZ / N P R
TXT11A: ASCIZ /
TXT11B: ASCIZ /
TXT12: ASCIZ /
DEVICE CSE
         016402
                                                                                    REGISTERS:/
         016422
                   020040
                             020116
                  020040
020040
042504
                            020040
020040
044526
         016474
                                                                                        OUT ADDR. IN ADDR./
         016532
                                                                   /DEVICE CSR ADDRESS : /
         016602
                                                                    /USYRT REGS :/
                   051525
                             051131
                                                          . ASCIZ
                                                TXT13:
         016630
                                      046122
                                                          .ASCIZ
                                                                                                TDSRH/
                             051504
                                                                    /ROSAL ROSAH
         016645
                                                TXT14:
                                                                                        TOSAL
                       122
                                                          .ASCIZ
                       040
                                                                    / PCSARL PCSARH PCR
         016703
                             020040
                                                TXT15:
                                                                                                       USTAT/
                                                         ASCIZ
ASCIZ
ASCIZ
ASCIZ
ASCIZ
                                      051040
                             040511
                                                                    /VIA REGS :/
                       126
                                                TXT16:
         016745
                                      020040
052040
020040
                                                                                        DORB
                                                                                                  DORA/
                   051117
                                                TXT17:
                                                                              ORA
         016760
                                                                    /ORB
                                                                   / TICL TICH TILL TILH/
                   040
                             020040
                                                TXT18:
         017015
                             046103
                                                TXT19:
         017056
                                                                   PCR IFR IER ORA/
                                      041520
                   020040
         017112
                                                TXT20:
                                                TXTML: .BYTE
                                                                    21,0 ;CTL-Q -- THIS (WE HOPE) IS HARPLESS
         017152
                       021
                                                TXTMLO: .ASCIZ
         017154
                   047516
                             000120
                                                                    /NOP/
                                      030440
                                                TXTPL1: .ASCIZ
         017160 042522
                             042101
                                                                    /READ 1 BYTE/
                                                                    MRITE 1 BYTE/
MPR-OUT 256 BYTES/
         017174
                   051127
                             052111
                                       020105
                                                TXTML2: .ASCIZ
                                                TXTML3: .ASCIZ
                             051120
                                      047455
                       116
         017211
                             051120
                                       044455
                                                TXTML4: .ASCIZ
                                                                    MPR-IN 256 BYTES/
                       116
         017233
                                                TXTMLS: .ASCIZ
                                       044515
                             020124
                                                                    /SET MICROPROCESSOR'S PC/
                   042523
         017254
                                                TXTML6: .ASCIZ
                                       044506
                   047125
                                                                    /UNDEF INED/
                             042504
         017304
                                                TXTML7: ASCIZ
                                                                    /ALLOW U-PROCESSOR INTERRUPTS/
                            047514
                                       020127
         017316
                   046101
                                                 TXTVR: .ASCIZ
                                                                    /VIA REGISTER /
         017353
                             040511
                                      051040
                            041122
040522
051104
                       117
117
104
                                                TXTVRO: .ASCIZ
                                          000
         017371
                                                                    /OR8/
                                                TXTVR1: .ASCIZ
                                          000
                                                                    /ORA/
         017375
                                                TXTVR2: ASCIZ
TXTVR3: ASCIZ
TXTVR4: ASCIZ
TXTVR5: ASCIZ
TXTVR6: ASCIZ
TXTVR6: ASCIZ
TXTVR7: ASCIZ
                                      000102
         017401
                   042104
                             040522
                                                                    /DDRA/
                                          000
         017406
                   030524
                             041461
                                       000114
                                                                    /TICL/
         017413
                            044103
046061
044114
                                                                    /TICH/
         017420
                                          000
                       124
                                       000114
                                                                    /TILL/
         017425
                   030524
                                                                    /TILH/
         017432
                                          000
                                                TXTVR8: .ASCIZ
TXTVR9: .ASCIZ
         017437
                       124
                            041462
                                      000114
                                                                    /T2CL/
                   031124 044103
123 000122
         017444
                                          000
                                                                    /T2CH/
                                                 TXTVRA: .ASCIZ
         017451
                                                                    /SR/
                                                TXTVRB: .ASCIZ
                            000122
                   041501
                                                                    /ACR/
         017454
                                                TXTVRC: .ASCIZ
                   041520
         017460
                                                                    /PCR/
                                                TXTVRD: .ASCIZ
                   043111
                             000122
         017464
                                                                    /IFR/
                                                TXTVRE: ASCIZ
TXTVRF: ASCIZ
         017470
                  042511
                             000122
                                                                    /IER/
                   051117
         017474
                             000101
                                                TXTNP: ASCIZ
TXTNPO: ASCIZ
TXTNP1: ASCIZ
TXTNP2: ASCIZ
TXTNP3: ASCIZ
TXTNP4: ASCIZ
TXTNP5: ASCIZ
         017500
                             020122
                   050116
         017505
017515
                             047117
                      103
                                       051124
                                                                    /CONTROL/
                                                                   /DATA HI/
/DATA LO/
/ADDR. OUT EX/
/ADDR. OUT HI/
                            052101
052101
042104
051104
                                      020101
020101
027122
                       104
         017525
         017535
                       101
         017552
                   042101
                                       020056
                                                                    /ADDR. OUT LO/
         017567
                             042104
                                       027122
                       101
                             051104
                                                 TXTNP6: .ASCIZ
                                                                    /ADDR. IN EX/
         017604
                   042101
                                       020056
                                                TXTNP7: .ASCIZ
                                       020056
                                                                    /ADDR. IN HI/
                   042101
                             051104
                                                TXTNP8: .ASCIZ
         017634 042101 051104
                                      020056
                                                                    /ADDR. IN LO/
```

CVDMECO.		LINE UNIT	DIAG3 10:56	MACY11	30A(1052) TEXT	12-JUL STRINGS	-84 11:12 FOR ERROR	PAGE 96 HANDLERS	"TXT"		364 73
	017650 017663 017671 017677 017705 017713 017722 017731	122 124 124 120 041520 120 125	051131 051504 051504 051504 051504 051503 040523 051103 052123	020124 046122 044122 046122 044122 051101 044122 000 052101	TXTURO: . TXTUR1: . TXTUR2: . TXTUR3: . TXTUR4: . TXTUR6: . TXTUR6: . TXTUR7: . LIST B	ASCIZ ASCIZ ASCIZ ASCIZ ASCIZ ASCIZ ASCIZ	/USYRT REG /RDSRL/ /RDSRH/ /TDSRL/ /TDSRH/ /PCSARL/ /PCSARH/ /PCR/ /USTAT/				
3817 3818 3819		017744			.EVEN						
3820 3821 3822 3823 3824						TE	XT ADDRESS	TABLES US	ED BY ERROR	HANDLERS	••••••
3825 3826 3827	017744 017752 017760	017211	017160 017233 017316	017174 017254	TXTMLT: .	WORD	TXTHLO, TXTI	L1,TXTML2	TXTML3,TXTI	ML4,TXTML5,TX	TML6.TXTML7
3626 3629 3630 3631 3632 3633 3634 3635 3636 3637	017764 017766 017774	017353 017371 017406	017375 017413	017401 017420	TXTVRT:	MORD MORD	TXTVR TXTVRO, TXT	/R1,TXTVR2	,TXTVR3,TXT	VR4,TXTVR5,TX	TVR6.TXTVR7
3833 3834 3835	020002 020006 020014 020022	017425 017437 017454 017470	017432 017444 017460 017474	017451 017464		MORD	TXTVR6,TXT	/R9,TXTVRA	TXTVRB,TXT,	VRC.TXTVRD.TX	TVRE, TXTVRF
3838 3839	020036 020036	017535	017515 017552	017567	TXTNPT:	MORD MORD	TXTNP TXTNPO, TXT	P1, TXTNP2	TXTNP3,TXT	NP4,TXTNP5,TX	TNP6,TXTNP7,TXTNP8
3840 3841 3842 3843 3844 3845 3846	020044 020052 020060 020066		017620 017671 017713 017735	017634 017677 017722	TXTURT: .	MORD	TXTURO, TXT	JR1,TXTUR2	TXTURS.TXT	UR4,TXTUR5,TX	TUR6.TXTUR7

DMEC.PI	11 1	2-JUL-84	10:56			L-84 11:12 PAGE 97 S TABLES FOR ERROR HANDLE			
3847				COTTI	5000	R HANDLER ERR3 DUMF	THE BYTE CELECT DECTES	EDC	
3848 3849							THE OTTE SELECT REGIST		
3850 0	020072				BGNMSG	ERR3	ERR3::		
	020072	004737	021306			PC.ERR4#	Enno		
3853 (020076				PRINTB	JENDEMB		****	4510510 (40)
	020076	012746	000001					HOV	#ENDEMB(SP)
3033	020106	010600	000002					MOV	SP.RO
3857 (020110	104414						TRAP	C\$PNTB
	020112	062706	000004		ENDHSG			ADD	44,SP
	020116				ENUMBE		L10002:		
2061 (104423						TRAP	C#MSG
3862				1		R HANDLER ERR4 M-LO			
3863				.SBTTL	ERRO	R MANDLER ERR4 M-LC	JOP TIMEOUT ERROR HANDLE	NG	
3862 3863 3864 3865 3866 0	020120				BGNMSG	ERR4			
3866	020120					GDATA+1 R1,-(SP) GDATA,R1 #17,R1 S# #FMT5,R1	ERR4::		
3867 (020120	105037	002325		CLRB	GDATA+1	MAKE SURE BIT 8 DOESN'	T PRINT	
	020124	010146	002324		MOV	R1(SP)	SAVE THE MUNKING REGIS	IER	
3870	020132	022701	000017		CHP	017.R1	WAS THIS AN M-LOOP REG	WEST?	
3871 0	020136	002012			BGE	54	YES, THEN REPORT THE F	UNCTION	CODE
3872	020140				PRINTX	OFHTS,R1	INO. THEN IT MUST BE	BSEL1 S	SETTING
	020140	010146	012400					MOV	R1,-(SP) #FMT5,-(SP)
	020146	012746	000002					MOV	42,-(SP)
3876	020152	010600						MOV	SP.RO
3877	020154	104415	***************************************					TRAP	CIPNTX
3878 G 3879 G	020156 020162	062706	000006		BR	201		ADD	46.SP
3880	DE010E	000-12-1			OIL .	200			
3881 (020164	001001		5#:	BNE	6	IF IT WAS A 17. THIS	S A "NOF	" AND
3882 (020166	005001 022701	000007		CLR	R1	THE TEXT POINTER MUS	ST SO REF	LECT.
3884 (020170 020174	002002	000007	6#:	BGE	07.R1	IS FUNCTION CODE > 7?	FIT	
3885	020176	012701	000006		MON	96.R1	YES, THEN IT'S UNDEFIN	ED S/	NY SO
3886 0	202020	006301		76:	ASL	R1	YES, THEN IT'S UNDEFINE	ET	
3887 (020176 020202 020204 020204	016146	017744		PRINTX	OFHTSA, GDATA, TXTMLT(R1)	REPORT THE FAILING FU		TXTMLT(R1),-(S
3889 (020204	016146 013746	017744					MOV	GDATA, -(SP)
3890	020210 020214 020220 020224	012746	012443					MOV	OFMTSA, -(SP)
3891 (020220	012746	000003					MOV	43(SP)
3892 (020224	010600						HOV TRAP	SP.RO C#PNTX
3882 (3883 (3884 (3885 (3886 (3887 (3888 (3889)))))))))))))))))))))	020226 020230	104415	000010					ADD	#10.SP
3895	20200	002100	200070						
3896 (020234	012601		201:	MOV	(SP)+,R1	RESTORE THE WORKING RE		
3897 0	020236	004737	021634		JSR	PC.ERRS#	DUMP THE SELECT REGIST	ERS	
3898 (3899 (020242				ENDMSG		L10003		
3900	020242	104423					22003	TRAP	C#MSG
3901				1		R HANDLER ERR7A US			

							SEQ 97
VDMECO DMV11	LINE UNIT	DIAG3	MACY11 30A(1052	OR HANDL	L-84 11:12 PAGE 98 ER ERR7A USYRT REGISTER ERRORS		364 77
3903 3904 020244				BGNMSG	ERR7A		
3905 020244 3906 020244		000776		HOVB	REGNUM, R1	RR7A::	
3907 020250	006301	002336		ASL PRINTB	R1 AS PASSED, THIS WAS A BY	TE OFFSET	
3908 020252 3909 020252	016146	020052				MOV	TXTURT(R1),-(SP
3910 020256	012746	017650 012766				HOV	OTXTUR, -(SP) OFHT15, -(SP)
3912 020262 3912 020266	012746	000003				HOV	43,-(SP)
3913 020272	010600					MOV	SP.RO C#PNTB
3914 020274	104414					TRAP	CIPNTB
3915 020276 3916 020302	062706	000010		JSR	PC YORGE	ADD	●10,SP
3916 020302 3917 020306	004131	OFTERE		PRINTB	PC, XORGB #FHT3, GDATA, BDATA, XDATA		
3918 020306	013746	002330				HOV	XDATA, -(SP)
3919 020312	013746	002326				HOV	BDATA, -(SP) GDATA, -(SP) 4FHT3, -(SP)
3920 020316 3921 020322	013746	002324				HOV	AFMT3(SP)
3921 020322 3922 020326 3923 020332 3924 020334 3925 020336 3926 020342 3927 020342 3928 020346 3929 020352	012746	000004				HOV	44,-(SP)
3923 020332	010600					MOV	SP,RO
3924 020334	104414	000013				TRAP	CIPNTB
3925 020336 3926 020342	062706	000012		PRINTR	JENDERB	AUU	#12.SP
927 020342	012746	012116				MOV	4E10E18, -(SP)
3928 020346	012746	000001				MOV	01,-(SP)
3929 020352 3930 020354	010600					HOV	SP.RO CIPNTB
3931 020356	062706	000004				ADD	44.SP
3932 020362				ENDMSG			
3933 020362					L. C.	10004:	044400
3934 020362	104423					TRAP	C#MSG
3936			SBTTL	ERRO	R HANDLER ERR10 USYRT REG ERROR (XOR	. REG PRINTOU	T)
3937			1				
3937 3938 3939 020364				BGNMSG	CODIA		
3940 020364				9014130		RR10::	
3941 020364				PRINTB			
3942 020364	A4 2244	002416				MOV	MPCSR, -(SP)
3943 020370 3944 020374	012746	016602 013503				HOV	#TXT12,-(SP) #FMT21,-(SP) #3,-(SP) SP,R0
3945 020400	012746	000003				MOV	43(SP)
3946 020404	010600					MOV	SP.RO
3947 020406	104414	*****				TRAP	CAPMIR
3949 020410	062706	000010		POTNTR	øFHT22	ADD	●10.SP
3950 020414	012746	013513				MOV	OFMT22,-(SP)
3951 020420	012746 012746	000001				HOV	#1(SP) SP.RO
3952 020424	010600 104414					HOV	SP.RO C#PNTB
3942 020364 3943 020370 3944 020374 3945 020400 3946 020404 3947 020406 3948 020410 3949 020414 3950 020414 3951 020420 3952 020424 3953 020426 3954 020430	062706	000004				ADD	44.SP
3942 020364 3943 020370 3944 020374 3945 020400 3946 020404 3947 020406 3948 020410 3949 020414 3950 020414 3951 020420 3952 020424 3953 020426 3954 020430 3955 020440	013701	002336		HOV	REGNUM, R1		
3955 020434 3956 020440	006301			ASL	R1 GET PTR TO USYRT	REG ASCII	
3957 020442 3958 020442		020052		PRINTB	#FMT27, #TXTUR, TXTURT(R1)	MOV	TXTURT(R1)(SP
3730 020442	010140	050035				1100	181041/4271-431

					-	18				
										SEQ 98
CYDMEC	DHV11	LINE UNIT	DIAG3 10:56	MACY11 30A(1052) 12-J	UL-84 11:12 LER ERR10	PAGE 99 USYRT REG	ERROR (XOR,	REG PRINTOUT	(1	
3959 3960 3961 3962 3963 3964 3965 3966 3967	020446 020452 020456 020462 020464	012746 012746 012746 010600 104414	017650 013712 000003						MOV MOV MOV TRAP	#TXTUR,-(SP) #FMT27,-(SP) #3,-(SP) SP,R0 C#PNTB
3964 3965	020466	062706 004737	000010	JSR	PC, XORGB	A,BDATA,XDATA	COMPUTE XOR	OF GOOD AND	ADD BAD D	#10,SP ATA
3969 3970 3971 3972	020476 020476 020502 020506 020512 020516 020522	013746 013746 013746 012746 012746 010600 104414	002330 002326 002324 013535 000004	PRINTB	OFMT23,GDAT	A,BDATA,XDATA			MOV HOV HOV HOV HOV TRAP	XDATA,-(SP) BDATA,-(SP) GDATA,-(SP) #FMT23,-(SP) 44,-(SP) SP,R0 C#PNTB
3973 3974 3975	020522 020524 020526 020532 020536	062706 004737	000012 022364	JSR	PC.ERR12#		GET & PRINT	USYRT REGIS	ADD	#12.SP
3976 3977 3978	020536	104423		ENDMSG				L10005:	TRAP	C#MSG
3979 3960 3961 3962 3963 3964 3965				SBTTLERR	••••••	ERR11 VI/	REG ERROR (KOR, REG PR	(NTOUT)	
3984 3985	020540 020540				ERR11			ERR11::		
3967 3966 3969 3990	020540 020544 020550 020554 020560 020562	010600 104414	002416 016602 013503 000003	PRINTB	#FHT21.#TXT	12.MPCSR			MOV MOV MOV MOV TRAP	MPCSR,-(SP) #TXT12,-(SP) #FMT21,-(SP) #3,-(SP) SP,R0 C#PNTB #10,SP
3994	020564 020570			PRINTB	OFMT22					
3991 3992 3993 3994 3995 3996 3997 3998	020570 020574 020600 020602	012746 010600 104414	013513						MOV MOV TRAP	#FMT22(SP) #1(SP) SP,R0 C:PNTB
3999 4000 4001 4002	020604 020610 020614 020616	062706 013701 006301	000004	MOV ASL PRINTB	REGNUM, R1 R1 øFMT27. ØTXT	VR.TXTVRT(R1	GET PTR TO	VIA REG ASC	ADD	44,SP
4003 4004 4005 4006 4007 4008	020616 020622 020626 020632 020636 020640	012746 012746 012746 010600 104414	017766 017353 013712 000003						MOV MOV MOV MOV TRAP	TXTVRT(R1),-(SP) #TXTVR,-(SP) #FHT27,-(SP) #3,-(SP) SP,R0 C*PNTB
4009 4010	020642 020646	062706 004737	000010 021262	JSR	PC, XORGB	A BRATA MAAT	COMPUTE XOR	OF GOOD AND	ADD BAD D	#10.SP
4011 4012 4013 4014	020652 020652 020656 020662	013746 013746 013746	002330 002326 002324	PRINTB	##125,GDAT	A,BDATA,XDAT			MOV MOV	XDATA, -(SP) BDATA, -(SP) GDATA, -(SP)

PRINTB OFMT21, OTXT12, MPCSR

MPCSR, -(SP) MOV MOV #TXT12, -(SP) #FHT21, -(SP) MOV #3,-(SP)

ERR13::

4066 021030 4067 021030 013746 002416 4068 021034 012746 016602 012746 013503 4069 021040 021044 012746 000003 4070

021030

VDMECO DMV11	LINE UNIT	DIAG3	MACY11	30A(1052)	12-JU	L-84 11:12 PAGE 101				SEQ 190
OMEC.P11	12-JUL-84	10:56		ERRO	R HANDL	LER ERR13 RAM ADD	RESS ERRORS			
4071 02105	0 010600								MOV	SP,RO
4072 02105									TRAP	C4PNTB
4073 02105	4 062706	000010							ADD	#10,SP
4074 02106	0				PRINTB	#FMT40, REGNUM				
4075 02106	0 013746	002336							MOV	REGNUM, -(SP)
4076 02106	4 012746	014150							MOV	0FMT40,-(SP)
4077 02107		000002							MOV	#2,-(SP)
4078 02107									MOV TRAP	SP,RO C\$PNTB
4079 02107 4080 02110		000006							ADD	46.SP
4061 02110		021262			JSR	PC.XORGB COMP	UTE XOR OF GOOD			40,3
4082 02111		000000			PRINTB		ATA			
4083 02111	0 013746	002330							MOV	XDATA, -(SP)
4084 02111		002326							MOV	BDATA, -(SP)
4085 02112		002324							HOV	GDATA, -(SP)
4086 02112		013535							HOV	0FMT23,-(SP)
4067 02113		000004							MOV	44,-(SP)
4068 02113									MOV TRAP	SP,RO C\$PNTB
4089 02113 4090 02114		000012							ADD	#12.SP
4091 02114		000015			ENDMSG					V12,3
4092 02114					2.0			L10010:		
4007 00114	4 104423								TRAP	C#MSG
4093 02114										
4094										
4094 4095										
4094 4095 4096										
4094 4095 4096 4097						OR HANDLER ERR14	VIA REG ERRORS (/IA PRINTOU	π)	
4094 4095 4096 4097 4098				1			VIA REG ERRORS (/IA PRINTOU	π)	
4094 4095 4096 4097 4098 4099 02114 4100 02114	5			1		ERR14	VIA REG ERRORS (/IA PRINTOU ERR14::	π)	
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114	5 6			1		ERR14	VIA REG ERRORS (ERR14::	•••••	
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114	5 6 6 6 013746	002416		1	BGNMSG	ERR14	VIA REG ERRORS (ERR14::	MOV	HPCSR,-(SP)
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115	6 6 6 6 013746 2 012746	016602		1	BGNMSG	ERR14	VIA REG ERRORS (ERR14::	MOV	MPCSR,-(SP)
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115	5 6 6 6 013746 2 012746 6 012746	016602 013503		1	BGNMSG	ERR14	VIA REG ERRORS (ERR14::	MOV MOV MOV	#TXT12,-(SP)
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116	5 6 6 6 6 013746 2 012746 6 012746 2 012746	016602		1	BGNMSG	ERR14	VIA REG ERRORS (ERR14::	MOV MOV MOV	#TXT12,-(SP) #FMT21,-(SP) #3,-(SP)
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116	5 6 6 6 6 013746 2 012746 6 012746 2 012746 5 010600	016602 013503		1	BGNMSG	ERR14	VIA REG ERRORS (ERR14::	MOV MOV MOV MOV	#TXT12,-(SP) #FMT21,-(SP) #3,-(SP) SP,R0
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117	5 6 6 6 6 013746 2 012746 6 012746 010600 0 104414	016602 013503 000003		1	BGNMSG	ERR14	VIA REG ERRORS (ERR14::	MOV MOV MOV MOV TRAP	#TXT12(SP) #FHT21(SP) #3(SP) SP.RO C#PNTB
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117	5 6 6 6 6 013746 2 012746 6 012746 010600 0 104414	016602 013503			BGNMSG PRINTB	ERR14 øFMT21.ØTXT12.MPCSR	VIA REG ERRORS (ERR14::	MOV MOV MOV MOV	#TXT12,-(SP) #FMT21,-(SP) #3,-(SP) SP,R0
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4109 02117	5 6 6 6 6 013746 2 012746 6 012746 010600 0 104414	016602 013503 000003			BGNMSG PRINTB	ERR14	VIA REG ERRORS (ERR14::	MOV MOV MOV MOV TRAP	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C#PNTB #10.SP
4094 4095 4096 4097 4098 4099 02114 4100 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4109 02117 4110 02117	5 6 6 6 6 013746 2 012746 010600 0 104414 2 062706 6 012746 2 012746	016602 013503 000003			BGNMSG PRINTB	ERR14 øFMT21.ØTXT12.MPCSR	VIA REG ERRORS (ERR14::	MOV MOV MOV MOV TRAP ADD	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C#PNTB #10.SP
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4109 02117 4110 02120 4112 02120	5 6 6 6 013746 2 012746 010600 104414 2 062706 6 012746 010600 6 012746 010600	016602 013503 000003 000010 013513			BGNMSG PRINTB	ERR14 øFMT21.ØTXT12.MPCSR	VIA REG ERRORS (ERR14::	MOV MOV MOV MOV TRAP ADD MOV MOV	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C#PNTB #10.SP #FMT22(SP) #1(SP) SP.RO
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4109 02117 4110 02117 4111 02120 4112 02120 4113 02121	5 6 6 6 013746 2 012746 010600 0 104414 062706 6 012746 010600 0 104414	016602 013503 000003 000010 013513 000001			BGNMSG PRINTB	ERR14 øFMT21.ØTXT12.MPCSR	VIA REG ERRORS (ERR14::	MOV MOV MOV MOV TRAP ADD MOV MOV MOV TRAP	#TXT12(SP) #FMT21(SP) #3,-(SP) SP,R0 C#PNTB #10.SP #FMT22(SP) #1(SP) SP,R0 C#PNTB
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4109 02117 4110 02117 4111 02120 4112 02120 4113 02121 4114 02121	5 6 6 6 6 013746 2 012746 010600 0 104414 2 062706 6 010600 0 104414 2 062706	016602 013503 000003 000010 013513 000001			BGNMSG PRINTB PRINTB	ERR14 #FMT21.#TXT12.MPCSR #FMT22	VIA REG ERRORS (ERR14::	MOV MOV MOV MOV TRAP ADD MOV MOV	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C#PNTB #10.SP #FMT22(SP) #1(SP) SP.RO
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4109 02117 4110 02117 4110 02117 4111 02120 4112 02121 4114 02121 4115 02121	5 6 6 6 013746 2 012746 010600 0 104414 2 062706 6 010600 0 104414 2 062706 6 013701	016602 013503 000003 000010 013513 000001			BGNMSG PRINTB PRINTB	ERR14 #FMT21.#TXT12.MPCSR #FMT22 REGNUM, R1		ERR14::	MOV MOV MOV MOV TRAP ADD MOV MOV TRAP ADD	#TXT12(SP) #FMT21(SP) #3,-(SP) SP,R0 C#PNTB #10.SP #FMT22(SP) #1(SP) SP,R0 C#PNTB
4094 4095 4096 4097 4098 4099 02114 4100 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4109 02117 4110 02117 4110 02117 4111 02120 4112 02121 4115 02121 4116 02122	6 6 6 6 6 6 6 7 7 8 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	016602 013503 000003 000010 013513 000001			BGNMSG PRINTB PRINTB	ERR14 #FMT21.#TXT12.MPCSR #FMT22 REGNUM, R1 R1	GET PTR TO V	ERR14::	MOV MOV MOV MOV TRAP ADD MOV MOV TRAP ADD	#TXT12(SP) #FMT21(SP) #3,-(SP) SP,R0 C#PNTB #10.SP #FMT22(SP) #1(SP) SP,R0 C#PNTB
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4110 02117 4111 02120 4112 02121 4114 02121 4115 02121 4116 02122 4117 02122	5 6 6 6 6 6 013746 2 012746 010600 0 104414 2 062706 6 012746 010600 0 104414 2 062706 6 013701 2 006301	016602 013503 000003 000010 013513 000001 000004 002336			BGNMSG PRINTB PRINTB	ERR14 #FMT21.#TXT12.MPCSR #FMT22 REGNUM, R1	GET PTR TO V	ERR14::	MOV MOV MOV MOV TRAP ADD MOV MOV TRAP ADD	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C#PNTB #10.SP #FMT22(SP) #1(SP) SP.RO C#PNTB #4.SP
4094 4095 4096 4097 4098 4099 02114 4100 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4109 02117 4110 02117 4111 02120 4112 02121 4114 02121 4115 02122 4117 02122 4118 02122	5 6 6 6 6 6 6 012746 6 012746 010600 104414 2 062706 6 013701 2 06301 4 016146	016602 013503 000003 000010 013513 000001 000004 002336			BGNMSG PRINTB PRINTB	ERR14 #FMT21.#TXT12.MPCSR #FMT22 REGNUM, R1 R1	GET PTR TO V	ERR14::	MOV MOV MOV MOV TRAP ADD MOV MOV TRAP ADD	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C#PNTB #10.SP #FMT22(SP) #FMT22(SP) #FNTB #4.SP TXTVRT(R1)(SP)
4094 4095 4096 4097 4098 4099 02114 4100 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4109 02117 4110 02117 4111 02120 4112 02121 4114 02121 4115 02122 4117 02122 4118 02122	5 6 6 6 6 013746 2 012746 012746 010600 104414 062706 6 013701 2 006301 4 016146 0 012746	016602 013503 000003 000010 013513 000001 000004 002336 017766 017353			BGNMSG PRINTB PRINTB	ERR14 #FMT21.#TXT12.MPCSR #FMT22 REGNUM, R1 R1	GET PTR TO V	ERR14::	MOV MOV MOV MOV TRAP ADD MOV MOV TRAP ADD	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C#PNTB #10.SP #FMT22(SP) #FMT22(SP) #FNTB #4.SP TXTVRT(R1)(SP)
4094 4095 4096 4097 4098 4099 02114 4100 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4109 02117 4110 02117 4111 02120 4112 02121 4114 02121 4115 02122 4117 02122 4118 02122	013746 012746 012746 012746 012746 010600 0 104414 062706 6 012746 010600 0 104414 2 062706 0 104414 2 062706 0 13701 2 006301 4 016146 0 012746 4 012746	016602 013503 000003 000010 013513 000001 000004 002336 017766 017353 013712			BGNMSG PRINTB PRINTB	ERR14 #FMT21.#TXT12.MPCSR #FMT22 REGNUM, R1 R1	GET PTR TO V	ERR14::	MOV MOV MOV MOV TRAP ADD MOV MOV TRAP ADD	#TXT12(SP) #FMT21(SP) #3,-(SP) SP.RO C*PNTB #10.SP #FMT22(SP) #1,-(SP) SP.RO C*PNTB #4.SP TXTVRT(R1)(SP) #TXTVR(SP) #FMT27(SP) #3,-(SP)
4094 4095 4096 4097 4098 4099 02114 4100 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4108 02117 4109 02117 4110 02120 4112 02120 4113 02121 4116 02122 4117 02122 4118 02122	5 6 6 6 6 013746 2 012746 6 010600 0 104414 2 062706 6 013701 2 062706 6 013701 2 006301 4 016146 0 012746 4 012746 4 012746 4 010600	016602 013503 000003 000010 013513 000001 000004 002336 017766 017353			BGNMSG PRINTB PRINTB	ERR14 #FMT21.#TXT12.MPCSR #FMT22 REGNUM, R1 R1	GET PTR TO V	ERR14::	HOV HOV HOV HOV TRAP ADD HOV HOV TRAP ADD	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C*PNTB #10.SP #FMT22(SP) #1(SP) SP.RO C*PNTB #4.SP TXTVRT(R1)(SP) #TXTVR(SP) #FMT27(SP) #3(SP) SP.RO
4094 4095 4096 4097 4098 4099 02114 4100 02114 4101 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4100 02117 4110 02117 4111 02120 4112 02121 4114 02121 4115 02121 4116 02122 4117 02122 4118 02122 4119 02123 4120 02124 4120 02124 4120 02124 4120 02124 4120 02124 4120 02124 4120 02124 4120 02124 4120 02124 4120 02124 4120 02124 4120 02124	5 6 6 6 6 6 6 6 6 012746 6 012746 6 012746 6 012746 6 012746 6 012746 6 013701 2 062706 6 013701 2 006301 4 016146 0 012746 6 012746 0 012	016602 013503 000003 000010 013513 000001 000004 002336 017766 017353 013712 000003			BGNMSG PRINTB PRINTB	ERR14 #FMT21.#TXT12.MPCSR #FMT22 REGNUM, R1 R1	GET PTR TO V	ERR14::	HOV HOV HOV HOV TRAP ADD HOV HOV TRAP ADD I	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C*PNTB #10.SP #FMT22(SP) #1(SP) SP.RO C*PNTB #4.SP TXTVRT(R1)(SP) #TXTVR(SP) #FMT27(SP) #5(SP) SP.RO C*PNTB
4094 4095 4096 4097 4098 4099 02114 4100 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02116 4107 02117 4109 02117 4110 02117 4110 02120 4112 02120 4113 02121 4114 02121 4115 02121 4116 02122 4117 02123 4120 02123 4121 02124 4122 02124 4123 02124 4123 02124 4123 02125	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	016602 013503 000003 000010 013513 000001 000004 002336 017766 017353 013712 000003			BGNMSG PRINTB PRINTB MOV ASL PRINTB	ERR14 #FHT21.#TXT12.HPCSR #FHT22 REGNUM.R1 R1 #FHT27.#TXTVR.TXTVRT((GET PTR TO V	ERR14::	HOV HOV HOV HOV TRAP ADD HOV HOV TRAP ADD I	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C*PNTB #10.SP #FMT22(SP) #1(SP) SP.RO C*PNTB #4.SP TXTVRT(R1)(SP) #TXTVR(SP) #FMT27(SP) #3(SP) SP.RO
4094 4095 4096 4097 4098 4099 02114 4100 02114 4102 02114 4103 02115 4104 02115 4105 02116 4106 02117 4109 02117 4109 02117 4110 02117 4111 02120 4112 02121 4114 02121 4115 02121 4116 02122 4117 02123 4119 02123 4120 02124 4120 02124 4122 02124 4122 02124 4123 02124	013746 012746 012746 012746 012746 010600 0 104414 062706 0 10400 0 104414 062706 0 13701 0 06301 4 016146 0 012746 4 012746 6 012746 6 012746 7 012746 8 012746 9 012746	016602 013503 000003 000010 013513 000001 000004 002336 017766 017353 013712 000003			BGNMSG PRINTB PRINTB	ERR14 #FMT21.#TXT12.MPCSR #FMT22 REGNUM, R1 R1	GET PTR TO V	ERR14::	HOV HOV HOV HOV TRAP ADD HOV HOV TRAP ADD I	#TXT12(SP) #FMT21(SP) #3(SP) SP.RO C*PNTB #10.SP #FMT22(SP) #1(SP) SP.RO C*PNTB #4.SP TXTVRT(R1)(SP) #TXTVR(SP) #FMT27(SP) #5(SP) SP.RO C*PNTB

										SEQ 101
		LINE UNIT	DIAG3	MACY11	30A(1052	12-3	UL-84 11:12 P	NGE 102 VIA REG ERRORS (VIA PRINTOUT)		
CYDMEC.	P11	12-JUL-84	10:56		ERR	UK HANDL	"EM EMMT4	ATH MER EMMONS (ATH EMTHINOI)		
4127	021260							L100	11:	
4128		104423							TRAP	C#MSG
4129	-									
4130										
4131										
4132										
4133										
4134					. SBTTL	ERR(OR HAMDLER SUBRI	DUTINES		
4135					1					
4136					1		SUBMOUTINES US	ED ONLY BY ERROR HANDLERS		
4137					1					
4138					COTTI			SUBROUTINE XORGB		
4139					.30116		ENNOW IMPORTER !	SOBHOOTTHE YOURD		
4140 4141						DEDECON	EXCLUSIVE OF	BETWEEN "GDATA" & "BDATA" PUTTI	MG	
4142					:	THE RES	SULT IN "XDATA"	CINCON GONIA G GONIA FOITZ		
4143					•					
4144	021262	010146			XORGB:	MOV	R1(SP)	PRESERVE WORKING REGISTER GET "GOOD" DATA AND "BAD" DATA PERFORM EXCLUSIVE OR RESTORE R1		
4145	021264		002324			MOV	GDATA,R1	GET "GOOD" DATA		
4146	021270		002326	002330		MOV	BDATA, XDATA	AND "BAD" DATA		
4147	021276		002330			XOR	R1,XDATA	PERFORM EXCLUSIVE OR		
4148	021302					MOV	(SP)+,R1	RESTORE R1		
4149	021304	000207				RTS	PC	RETURN		
4150										
4151					1		COOCO 444404 CO			
4152							ENNUR HANDLER	SUBROUTINE ERR4#		
4153 4154						TOENTTE	TY & PLAND THE D	YTE SELECT REGISTERS		•••••
4155						TOCHIT	I G DUIP INC B	THE SELECT REGISTERS		
4156	021306				FRRAS.	PRINTY	OFMT4, OTXT3, O	TXT1		
4157	021306		015602						MOV	OTXT1,-(SP)
4158	021312		016004						MOV	OTXT3,-(SP)
4159	021316		012247						MOV	0FHT4,-(SP)
4160	021322	012746	000003						MOV	43,-(SP)
4161	021326	010600							MOV	SP.RO
4162	021330								TRAP	CSPNTX
4163	021332	062706	000010						ADD	#10,SP
4164	021336					PRINTX	OFMT4A,BSRO,B	SR1,8SR2,8SR3	*****	0007 (00)
4165	021336	013746	002210						MOV	BSR3,-(SP)
4167	021342 021346	013746	002206						MOV	BSR2,-(SP) BSR1,-(SP)
4168	021352	013746 013746	002204						MOV	BSRO, -(SP)
4162 4163 4164 4165 4166 4167 4168 4169 4170 4171 4172	021356	012746	012305						MOV	OFHTAA, -(SP)
4170	021362	012746	000005						MOV	45,-(SP)
4171	021366	010600	00000						MOV	SP.RO
4172	021370	104415							TRAP	CIPNTX
4173	021372		000014						ADD	414,SP
4174	021376					PRINTX	OFHT48, OTXT2			
4174 4175	021376	012746	015640						HOV	₽TXT2,-(SP)
4176	021402	012746	012340						MOV	#FMT48, -(SP)
4177	021406		000002						MOV	42,-(SP)
4178	021412								MOV	SP.RO
4179	021414	104415	000001						TRAP	CSPNTX
4180	021416	062706	000006			DOTHER	ACMTAC DCD4 D	COE DCD4 DCD7	ADD	46.SP
4181	021422		002220			PRINTX	OFHT4C, BSR4, B	ו אכם, סאכם, כאכ	MOV	BSR7,-(SP)
4182	021422	013746	002220						1104	D3K1,-(3F)

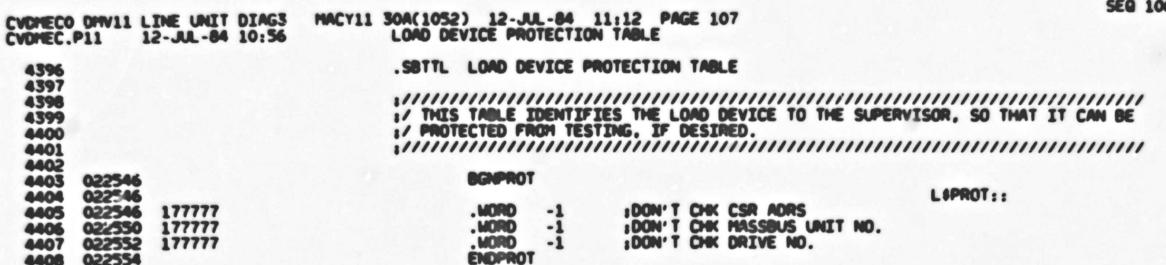
								SEQ 103
VDMECO	DHV11 L	INE UNIT	DIAG3	MACY11 30A(1052		L-84 11:12 PAGE 104		364 203
DIFEC.	P11 1	2-JUL-84	10:56		ERROR H	MANDLER SUBROUTINE ERRS#		
4239	021660	062706	000010			A	00	#10,SP
4240	021664				PRINTX	4FMT11, WSRO, WSR2, WSR4, WSR6 ; DUMP THE SELECT REGIS	TERS	
4241	021664	013746	002210				OV	WSR6,-(SP)
4242	021670	013746	002206			Market and the second s	OV	WSR4(SP)
4243	021674	013746	002204			M	OV	WSR2(SP)
4244	021700	013746	002202				OV	WSRO,-(SP)
4245	021704	012746	012655				OV	0FMT11(SP)
4246	021710	012746	000005				OV	45,-(SP)
4247	021714	010600					OV	SP,RO
4248	021716	104415					RAP	CIPNTX
4249	021720	062706	000014				00	014.SP
4250	021724				PRINTX	øFMT4B, ØTXT4A		
425	021724	012746	016074			M	OV	OTXT4A, -(SP)
4252	021730	012746	012340			M	OV	6FMT48,-(SP)
4253	021734	012746	200000				OV	42,-(SP)
4254	021740	010600				M	OV	SP.RO
4255	021742	104415				T T	RAP	CIPNTX
4256	021744	062706	000006				00	46.SP
4257	021750				PRINTX	AFMT11, WSR10, WSR12, WSR14, WSR16 ; DUMP THE SELECT R	EGISTER	RS
4258	021750	013746	005550				OV	WSR16,-(SP)
4259	021754	013746	002216				OV	WSR14,-(SP)
4260	021760	013746	002214				OV	WSR12,-(SP)
4241 4242 4243 4244 4245 4246 4247 4248 4250 4251 4252 4253 4254 4255 4256 4257 4258 4259 4260 4261 4262 4263 4263 4264 4265 4266 4267 4268 4269 4270	021764	013746	002212			N Committee of the Comm	OV	WSR10,-(SP)
4262	021770	012746	012655				OV	WSR12,-(SP) WSR10,-(SP) #FMT11,-(SP)
4263	021774	012746	000005				DA	95, -(SP)
4264	055000	010600					OV	SP,RO
4265	055005	104415					RAP	CIPNTX
4266	022004	062706	000014				00	014.SP
4267	022010				PRINTB	4ENDEM8		
4268	022010	012746	012116				OV	MENDEMB (SP
4269	022014	012746	000001				OV	01(SP)
4270	055050	010600					OV	SP.RO
4271	055055	104414					RAP	CAPNTB
4272	022024	062706	000004				DD	44,SP
4273	022030	000207			RTS	PC		
4274								
4275				1				
4276				.SBIIL	• • • • • • • •	ERROR HANDLER SUBROUTINE ERR11#		
4277 4278 4279					COMMON	ERROR SUBROUTINE TO GET/PRINT VIA REGISTERS		
4279					CONTION	ENHOW SOMMOTTHE TO BETT HITH ATH HERTZIENS		
4280	022032	004737	004460	ERR11#:	ICD	PC.GETVRS ;GET VIA REGS FOR PRINTOU	T	
4280 4281	022036	004101	001100	CHAZZY.	PRINTX			
4282	022036	012746	016760		LUZITIA		OV	#TXT17, -(SP)
4262 4263 4264 4265 4266 4267 4266 4269 4290	022042	012746	016745				ΙΟV	#TXT16, -(SP)
4284	022046	012746	013614				ΙΟV	0FHT24, -(SP)
4285	022052	012746	000003				ΙΟV	#3,-(SP)
4286	022056	010600	00000				ΙΟΥ	SP.RO
4287	022060	104415					RAP	CSPNTX
4288	022062	062706	000010				00	#10.5P
4289	022062 022066 022066	55.00			PRINTX	#FMT25. VREGS+0. VREGS+2. VREGS+4. VREGS+6		
4290	022066	013746	002270				OV	VREGS+6(SP
THE RESERVE AND PARTY.	022072	013746	002266				ΙΟΥ	VREGS+4, -(SP
4291	000016		002264				CV	VREGS+2(SP
4291	022076	U13/					-	
4291 4292 4293	022076 022102	013746 013746	002262				VOI	VREGS+0, -(SP

SEQ 104	
75 14 1 1 1 1 1	

				MACY11 30A(1052) 12-JU	-84 11.12 PAGE 105		SEQ 104
VDMECO VDMEC.		INE UNIT	10:56	ERROR H	ANDLER SUBROUTINE ERR11#		
4295	022112	012746	000005			MOV	45,-(SP)
4296	022116	010600				MOV	SP,RO
4297	022120	104415				TRAP	CIPNTX
4298	022122		000014			ADD	014,SP
4299	022126			PRINTX	OFMT29 OTXT18		
4299 4300	022126	012746	017015			MOV	0TXT18,-(SP)
4301	022132	012746	013755			MOV	6FMT29, -(SP)
4302	022136	012746	000002			MOV	02,-(SP)
4303	022142	010600				HOV	SP,RO
4304	022144	104415				TRAP	CIPNTX
4305	022146	062706	000006			ADD	46,SP
4306	022152			PRINTX	#FMT26, VREGS+8., VREGS+10., VREGS+12., VREGS+14.		
4307	022152	013746	002300			HOV	VREGS+14.,-(SP)
4308	022156	013746	002276			MOV	VREGS+12.,-(SP) VREGS+10.,-(SP) VREGS+8.,-(SP) #FMT26,-(SP)
POFA	022163	013746	002274			HOV	VREGS+10.,-(SP)
1310	022166	013746	002272			HOV	VREGS+8.,-(SP)
1311	022172	012746	013657			HOV	0FHT26,-(SP)
4312	022176	012746	000005			HOV	65,-(SP)
1313	022202	010600				HOV	SP,RO
4314	022204	104415				TRAP	CIPNTX
1315	022206	062706	000014			ADD	014,SP
1316	022212			PRINTX	øFMT29, ØTXT19		
1317	022212	012746	017056			MOV	#TXT19,-(SP)
318	022216	012746	013755			MOV	6FMT29, -(SP)
1319	022222	012746	000002			HOV	42,-(SP)
1320	022226	010600				MOV	SP.RO
1331	022230	104415				TRAP	C#PNTX
1322	022232	062706	000006			ADD	46.SP
1323	022236	005.00		PRINTX	#FMT25, VREGS+16., VREGS+18., VREGS+20., VREGS+22.		
4321 4322 4323 4324	022236	013746	002310			MOV	VREGS+22.,-(SP)
4325	022242	013746	002306			HOV	VREGS+20.,-(SP)
4325 4326	022246	013746	002304			MOV	VREGS+18.,-(SP)
4327	022252	013746	002302			MOV	VREGS+16.,-(SP)
1328	022256	012746	013627			MOV	4FHT25, -(SP)
1329	022262	012746	000005			MOV	45,-(SP)
1330	022266	010600	***************************************			MOV	SP.RO
1331	022270	104415				TRAP	CSPNTX
1335	022272	062706	000014			ADD	014.SP
1555	022276			PRINTX	#FMT29,#TXT20		
337	022262 022266 022270 022272 022276 022276	012746	017112			MON	#TXT20, -(SP)
335	022302	012746	013755			MOV	#FHT29, -(SP)
1336	022306	012746	000002			HOV	42,-(SP)
1337	022306	010600				MOV	SP.RO
1334	022314	104415				TRAP	CIPNTX
1330 1331 1332 1333 1334 1335 1336 1337 1338 1339	022316	062706	000006			ADD	46.SP
1340	022322	002.00		PRINTX	#FMT26, VREGS+24., VREGS+26., VREGS+28., VREGS+30.		
1341	022322	013746	002320			MOV	VREGS+30.,-(SP)
1345	022326	013746	002316			MOV	VREGS+26(SP) VREGS+26(SP) VREGS+24(SP) ØFMT26(SP)
4342 4343	022332	013746	002314			MOV	VREGS+26.,-(SP)
4344	022336	013746	002312			HOV	VREGS+24(SP)
4345	022342	012746	013657			MOV	#FHT26, -(SP)
4346	022346	012746	000005			MOV	45,-(SP)
4347	022352	010600				MOV	SP.RO
4348	022354	104415				TRAP	C\$PNTX
	022356		000014			ADD	014.SP
4349			000074	RTS	PC		

CVOMECO	DHV11 P11	LINE UNIT	DIAG3 10:56	MACY11 30A(16	052) 12-JA	L-84 11:12 PAGE 106 MANDLER SUBROUTINE ERR11#		SEQ 105
4351 4352				1	n	ERROR HANDLER SUBROUTINE ERR126		
4353				.301		ENMON LAMPTEN 200HOOLTHE ENMISA		
4354 4355					COMMON	ERROR ROUTINE TO GET AND PRINTOUT US	VOT DECTETEDE	•••••
4333					CONTON	ENNOW MODITURE TO BET MAD PATHTOOT OF	THI HEULSTENS	
4356	022864	004737	004360	E001:	24: JSR	DC CETURS .CET USYRT	REGS FOR PRINTOUT	
4357 4358 4359	022364		00-300	Envis	POTNTX	PC,GETURS GET USYRT	ACOS FOR PRINTOGE	
4330	022370	012746	016645		T Hallin		HOV	0TXT14,-(SP)
4339	022370	012746	016630				MOV	OTXT13, -(SP)
4360	022400	012746	013614				HOV	OFHT24, -(SP)
4361	022404	012746	000003				HOV	43,-(SP)
4362	022410	012746	000003				HOV	SP,RO
4363	022410	010600					TRAP	CIPNTX
4364	055-15	104415	000010					
4365	022414	062706	000010		DOTATY	ACUTOR LIBERT A LIBERT A LIBERT A LIBERT	A00	●10,SP
4360 4361 4362 4363 4364 4365 4366 4367 4368	022420 022420 022424 022430	00.000			PRINTX	OFHT25, UREGS+0, UREGS+2, UREGS+4, UREG		10000 4 4003
4367	052420	013746	002250				HOV	UREGS+6,-(SP) UREGS+4,-(SP) UREGS+2,-(SP) UREGS+0,-(SP) #FHT25,-(SP)
4368	055454	013746	002246				HOV	UREGS+4,-(SP)
4369	022430	013746	002244				HOV	UNEGS+2,-(SP)
4370	022434	013746	002242				MOV	UNEGS+0, -(SP)
4371	022440	012746	013627				HOV	##IZ5,-(SP)
4372	022440 022444 022450 022452	012746	002246 002244 002242 013627 000005				MOV	es, -(SP)
4373	022450	010600					HOV	SP,RO
4374	022452	104415					TRAP	CSPNTX
4375	022454	062706	000014				ADD	014,SP
4376	022460				PRINTX	OFMT29, OTXT15		
4377	022454 022460 022460 022464	012746	016703				HOV	0TXT15,-(SP)
4378	022464	012746	013755				MOV	OFMT29, -(SP)
4379	022470	012746	000002				MOV	02,-(SP)
4380	022474	010600					HOV	SP,RO
4361	022476	104415					TRAP	CIPNTX
4382 4383	022500	062706	000006				ADD	46,SP
4383	022504				PRINTX	OFMT26.UREGS+10.UREGS+12.UREGS+14.U		
4384	022504	013746	002260				MOV	UREGS+16,-(SP
4385	022510	013746 013746	002256				MOV	UREGS+14(SP
4386	022514	013746	002254				HOV	UREGS+12(SP
4347	022520	013746	002252				MOV	UREGS+10(SP
4300	022524	012746	013457				MOV	UREGS.16(SP UREGS.14(SP UREGS.12(SP UREGS.10(SP)
4386 4387 4388 4389 4390 4391	022504 022514 022514 022524 022534	012746	002256 002254 002252 013657 000005				MOV	45(SP)
4300	022534	010600	55555				MOV	SP,RO
4301	022536	104415					TRAP	CSPNTX
4392	022540	062706	000014				ADD	014,SP
4392	022544	000207	000014		RTS	PC	~~	22410
4393 4394	066344	000207			W12			
4395				EVE				
				,EVEI				

SEQ 106



CVDMECO	DHV11	LINE UNIT	DIAG3	MACY11) 12-JU	L-84 11:12 ION	PAGE 108		SEQ 107
4409	•	22-002-0					IZE SECTION			
4410										
4411 4412 4413 4414		I/ THE INITIALIZE SECTION CONTAINS THE CODING THAT IS PERFORMED I/ AT THE BEGINNING OF THE TEST SEQUENCE ON THE NEXT UNIT.							ERFORMED IT.	
4415 4416 4417	022554					BGNINIT			LAINIT::	
4418			*****			*****		CAVE DACE LEVEL CTACK	DOTATED	
4419 4420 4421 4422 4423 4424 4425 4426 4427 4428 4429	022554 022560 022564 022570 022574 022600 022604	010637 005037 005037 005037 005037 005737 001007	002340 002344 002400 002376 002402 002370			MOV CLR CLR CLR TST BNE	SP.PSTACK SUBRPC CHPTYP ERROR1 SAVLEN FRSTIM 64	SAVE BASE-LEVEL STACK CLEAR SUBR CALL PC CLEAR USYRT CHIP TYPE CLEAR ERROR FLAG CLEAR CHAR LENGTH FROM SEE IF FIRST TIME THRO BR IF NOT	INDICATOR SETUP UGH AFTER LOAD	
4426 4427 4428	022606 022614 022622	013737 013737 000406	000004	002372		MOV MOV BR	804, SAVE4 806, SAVE6 91	SAVE ERROR TRAP VECTOR		
4430	022624 022632	013737 013737	002372 002374	000004 000006	68:	HOV	SAVE4,804 SAVE6,806	RESTORE ERROR TRAP VEC	TOR	
4432 4433	022640	012737	000001	002370	94:	HOV	01.FRSTIM	HARK FLAG FOR NEXT TIM	E THROUGH	
4434 4435 4436	022646				SEE IF	PROGRAM	JUST STARTE	D. BR IF YES		
4437	022646	012700 104447	000040					DCT	HOV	GEF.START,RO
4439	022654 022654	103415				BCOMPLE	IE SIR	151	BCS	STARST
4442					SEE IF	PROGRAM	JUST RESTAR	TED, BR IF YES		
4443	022656 022656	012700	000037			READEF	OEF.RESTART		MOV	OF RESTART, RO
4444	022662	104447				DCOMBI E	TE 674	DET	TRAP	CAREFG
4446 4447 4448 4449	022664 022664	103411				BCOMPLE	TE STA	N31	BCS	STARST
4449					SEE IF		A NEW PASS.	BR IF YES		
4450 4451 4452	022666 022666 022672	012700 104447	000035				GEF.NEW		MOV TRAP	GEF. NEW, RO
4453 4454	022674 022674	103411				BCOMPLE	TE NEW	ST	BCS	NEWST
4455 4456					SEE TE	PROGRAM	WAS JUST CO	NTINLED		
4457 4458 4459	022676 022676 022702	012700 104447	000036		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SEF.CONTINU		HOV TRAP	GEF. CONTINUE, RECEIREFG
4460	022704					BCOMPLE	TE END	IT		
4461 4462 4463	022704 022706	103473				BR	GETPRM		BCS	ENDIT
4464	022710				STARST:					
4404	022/10				3114911					

CYDHECO	DHV11	LINE UNIT	DIAG3 10:56	MACY11) 12-JU	L-84 11:12 TON	PAGE	109		258 108
4465	022710	005037	002412			CLR	STARES		CLEAR FLAG TO SHOW JUST HAD S	TA OR RE	s
4466					.CI EAD	DEVICE H	AG				
4467	022714	005037	002404		ICCEM	CLR	DEVMAP				
4468	022714	003031	005404		NEWST:	CEN	OC VIWW				
4469 4470	022720	012737	177777	002334	142451.	MOV	#-1,LOGDEV		RESET LOGICAL DEVICE TO -1		
4471	022726	005237				INC	STARES		INCREMENT NO. OF PASSES SINCE	STA OR	RES
4472	022732	012737	000001	002406		MOV	48ITO, DEVPT	R	INCREMENT NO. OF PASSES SINCE INIT DEVICE MAP BIT POINTER		
4473											
4474					; GET U	MIBUS AD	DRESS, VECTO	R, PRI	ORITY LEVEL, SWITCH PACKS, TE	ST	
4475							INFORMATION F	OR THI	S LOGICAL DEVICE		
4476	022740				GETPRH:						
4477	022740	005237	002334			INC	LOGDEV		INCREMENT LOGICAL DEVICE NUME	ER	
4478	022744					GPHARD	LOGDEV,R1	8	GET P-TABLE POINTER INTO R1	*****	
4479	022744	013700	002554							MOV	LOGDEY, RO
4480 4481 4482 4483 4484 4485 4486 4487 4488 4489 4499	022750	104442								TRAP	CIGPHRD
4481	022752 022754 022754 022756	010001				BCOMPLE	TE 104		BR IF DEVICE AVAILABLE	MOV	RO,R1
4402	022754	103403				OCUMPLE	100		DM TL DEATCE MANTEMOLE	BCS	104
4484	022756	006337	002406			ASL	DEVPTR		SHIFT DEVICE POINTER	003	104
4485	022762	000766	005-100			BR	GETPRH		SKIP THIS DEVICE		
4486	022764	053737	002406	002404	104:	BIS	DEVPTR, DEVM	MP I	SET BIT FOR THIS DEVICE		
4487	022772	006337	002406			ASL	DEVPTR		SHIFT BIT POINTER		
4488											
4489	022776	012102				HOV	(R1)+,R2	8	R2-CSR ADDR VALUE		
	023000		002416			MOV	OMPCSR, R3	8	R3-POINTER TO CSR ADDR STORAG	E AREA	
4491											
4492	023004				114:	MOV	R2,(R3)+		PUT CSR ADDRESSES IN 'BSEL'	NEA	
4493	023006	005202				INC	R2		BUMP BSEL ADDR		
4494	023010	022703	002456			CHP	#85EL17+2,R		ALL 16 ADDRESSES MOVED ?		
4495	023014	001373				BNE	116		NO: DO ANOTHER ADDRESS		
4496 4497									YES: CONTINUE		
4498	028016	011137	002456			MOV	(R1), MPIVEC		GET DHV11 INPUT INTRPT VECTOR		
4499	023022	012137	002460			MOV	(R1). MPOVE		BEI MINTE TIANI THINK I AECIG		
4500	053056	062737	000004	002460		ADD	64 , MPOVEC		GET DAVIL OUTPUT INTRPT VECTO	10	
4501	023034	012137	002462			HOV	(R1). MPRIO		GET DHV11 DEVICE PRIORITY		
4502	023040	012137 012137	002464			MOV	(R1)+.LUSWI	11 2	GET LU SWITCH PACK #1		
4503	023044	012137	002466			MOV	(R1) . LUSHI	12	GET LU SMITCH PACK #2		
4501 4502 4503 4504 4505 4506	023050	012137	002470			HOV	(R1)+.BRDTY	P 1	GET DMV-11 BOARD TYPE GET TEST CONNECTOR INDICATOR		
4505	023054	012137	002472			MOV	(R1)+,TSTCO	IN I	GET TEST CONNECTOR INDICATOR		
4506	023060	011137	002474			MOV	(R1).TSTCO	8	GET BAUD RATE FOR THIS DEVICE		
4507 4508					ISSUE	LSI BUS	RESET, TO IN	VIT DHY	11		
4508	023064					BRESET				****	040000
4509	023064					-	00		A TIME OF AV TO ALL OU CONT.	TRAP	CIRESET
4510 4511	023066	005000			184	CLR	RO		O TIME DELAY TO ALLOW COMPLET	TOM	
4511	023070				15#:	NOP	00 154		OF DMV11 MICRODIAGNOSTICS.		
4512	023072				ENDIT.	S08	RO.15#				
4513 4514	023074 023074				ENDIT:	ENDINIT					
4515	023074					ENDINI			L10013		
4516	023074				, , , ,				22001	TRAP	CINIT
4320	020014										

CYDMECO	DHV11 P11	LINE UNIT 12-JUL-84		CY11 30/	A(1052) UTO DROP	UNIT		GE 110		
4517					SBTTL AU	TO DRO	UNIT SECTION			
4518 4519 4520 4521 4522 4523				1/	HAS JU	TO DROP	CODING DETERM	INES WHETHER OR NOT THE DEVICE WHETHER THE TESTING, AND IT IS DROPPED IF	OSE P-TAE	BLE DY.
4523						*****	************	••••••	*******	•••••
4524 4525 4526 4527 4528 4529						WTC AL		CAME A CURMA TECT A 1 EVCERT THAT	7007	
4526				:	· ·	ILL JUS	ST REPORT THE F	SAME A CVOMA TEST # 1 EXCEPT THAT AILURE AND GO ON THIS ROUTINE	WILL CAU	SE THE
4528					0	EVICE	TO BE DROPPED I	AILURE AND GO ON THIS ROUTINE F A BUS-TIMEOUT OCCURS WHEN ANY O	F THE CS	R'S
4529				:	•	ME ACCI	F225D MTIM ETIM	ER A "TST" OR "TSTB" INSTRUCTION.		
4530 4531				į.		*****	***********	***********************	******	******
4532	023076					GNAUTO				
4534	023076					30.010		L#AUTO:	:	
4535	023076					ETVEC	04.0AD.HIT.00	SETUP INVALID-ADDRESS TRAP VEC	TOD	
4532 4533 4534 4535 4536 4537 4538 4539 4540	023076 023102 023106 023112	012746 012746 012746 012746	000000 023214 000004 000003			ETVEC		ISETOP INVALID-ROOKESS THAP VEC	HOV HOV HOV	00,-(SP) 0AD.HIT,-(SP) 04,-(SP) 03,-(SP)
4541	023116	104437	000010						TRAP	C#SVEC #10.SP
4542 4543 4544 4545 4546 4547	023124 023130 023134	005037 012702	002546 000001 002416		H	LR IOV IOV	TMPO 01,R2 BSELO,R3	INITIALIZE TRAP FLAG REGISTER FLAG BIT INIT ADDRESS POINTER		V10,3
4548 4549	023140 023142 023144	006302		10		STB ISL ICC	(R3). R2 1#	ACCESS THE CSR'S BY BYTES.		
4550 4551 4552 4553 4554 4556 4557 4556 4559 4560 4561 4562 4563 4564 4565	023146 023152 023156 023160 023162 023164	005723 006302 006302	002416 000001	20	: T	IOV IST ISL ISL	BSELO,R3 #1,R2 (R3)+ R2 R2 R2	RE-INIT ADDRESS POINTER RE-INIT FLAG BIT ACCESS THE CSR'S BY WORDS.		
4557 4558	023166						44	RESTORE THE VECTOR TO DS		
4559	023166	012700	000004						HOV	64,RO
4561 4562	023172 023174 023200	005737	002546			ST	THPO AD. OK	IDID WE GET HIT WITH AN INVALID	ADDRESS	C&CVEC TRAP?
4564 4565 4566	023202 023202	013700	002334			000	LOGDEV	YES, DROP THIS LOGICAL DEV.	HOV TRAP	LOGDEY.RO C#DODU

SEQ 110

CVDMECO DMV11 LINE UNIT DIAG3 MACY11 30A(1052) 12-JUL-84 11:12 PAGE 111 CVDMEC.P11 12-JUL-84 10:56 AUTO DROP UNIT SECTION

4575

4567 023210 000240 AD.OK: NOP ;(FOR PATCHING IN A HALT IF NECESSARY)
4568
4569 023212
4570 023212
4571 023212 104461
4572
4573 023214 050237 002546 AD.HIT: BIS R2,TMP0 ;FLAG THE HIT IF NE GET IT!
4574 023220 000002

4589 023222 104412

LICLEAN::

ENDCLN

L10015: TRAP C&CLEAN

				19			
CVDMECO		LINE UNIT 12-JUL-84	DIAG3 MA(10:56	1 30A(1052) 12-JUL-84 11:12 PAGE DROP UNIT SECTION	113		SE0 112
4590				.SBTTL DROP UNIT SECTION			
4591 4592 4593 4594 4595				THE DROP-UNIT SECTION CONTAINS TO NO LONGER BE TESTED.	THE CODING THAT CAUSES A DEVICE		
4596 4597 4598 4599 4600	023224	-44		BGNDU ; ISSUE UNIBUS RESET TO CLEAN UP BRESET	L#DU::		
4601 4602	023226			ENDOU		RAP	CARESET
4603 4604	023226				L10016:	RAP	C#DU

CVDMECO (UNIT DIAG3	MACY11	30A(1052) 12-JUL-84 11:12 PAGE 114 ADD UNIT SECTION		SEQ 113
4605				.SBTTL ADD UNIT SECTION		
4606 4607 4608 4609 4610 4611				'/////////////////////////////////////	ICE STING. 1	IF
	023230 023230			BGNAU L\$AU:		
4615	023230 023230			ENDAU L1001		
		452			TRAP	C\$AU

CVDMECO.		INE UNIT 2-JUL-84	DIAG3 10:56	MACY11			L-84 11:12 PAGE TA FLUSHING TEST			SEW 114
4618 4619 4620 4621 4622 4623 4624 4625 4626 4627 4628 4629					IN THE	TEST 1 BCP MODE USYRT 0 THE VIA S TEST V	RX DATA FLUSH /HALF DUPLEX IT : F ITS CRC CHARAC SHIFT REGISTER. ERIFIES THAT WHE	••••••	SHED BY A	READING
4630 4631					1	******	***********	**********************	******	******
4632 4633 4634 4635 4636	023232				:	BGNTST		T1::		
4635 4636	023232	004737	005376			JSR	PC, INIDMV	;INIT DHV-11, ENTER M-LOOP		
4637 4638 4639 4640 4641 4642 4643 4644 4645 4646 4647	023236 023242 023244 023246 023250	004537 063626 000000 103003	007234			JSR DDCMP!N O BCC ERROR	R5, INITRN OCHK!SYNCH!STRIP: .+8.	;LOAD 1 SOM, CLK TX UNTIL ACTIVES ;SET DOCMP.NO CHECK, SYNCH=226;USE 8 BIT CHARS;BR IF NO ERROR;REPORT STACKED ERROR	Æ	
4643	023250	104460							TRAP	C#ERROR
4644 4645 4646	023252 023252 023254	104410 000254				ESCAPE	TST	SKIP TO END OF TEST	TRAP . WORD	C#ESCAPE L10020
4648 4649 4650 4651 4652	023256 023262 023264 023266 023270	004537 120013 000210 103003	003712			JSR VIAACR 210 BCC ERROR	RS, WRITEI	SET SHIFT REGISTER TO "SYSTEM CLOCK RATE" MODE (CB: (BIT 7 PREVIOUSLY SET) BR IF NO ERROR REPORT STACKED ERROR		
4653	023270 023272	104460				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
4655 4656 4657	023272 023274	104410 000234							TRAP . WORD	C#ESCAPE L10020
4658 4659 4660	023276 023302 023304	004537 000001 000007	010250			JSR TSOM 7.	R5,TXCTRL	OUTPUT 1ST SYNC CHARACTER		
4662 4663 4664	023306 023312 023314	004537 000001 000010	010250			JSR TSOM 8.	R5,TXCTRL	OUTPUT 2ND SYNC CHARACTER		
4653 4654 4655 4656 4657 4658 4659 4660 4661 4662 4663 4664 4665 4666 4667 4668 4669 4670	023316 023322 023324	004537 000000 000000	010250			JSR 000 0	R5,TXCTRL	CLEAR TSOM (GET READY TO SEND	DATA)	
4670 4671 4672	023326 023332 023334	004537 000125 000010	010136			JSR 125	R5,TXCHAR	;LOAD 125, TX 3RD SYNCH		
4673	023336	103003				BCC	.+8.	BR IF NO ERROR		

VDMECO VDMEC.	DHV11	LINE UNIT	DIAG3	MACY11			A-84 11:12 PAG			SEQ 1
4674	023340		20.50			ERROR		REPORT STACKED ERROR		
4675	023340	104460							TRAP	C#ERROR
4676	023342					ESCAPE	TST	SKIP TO END OF TEST		
4677	023342								TRAP . WORD	C\$ESCAP L10020-
4679	062244	00010-			1					
4680	023346	012702	000004			MOV	44,R2	** TRANSFER 4 CHARACTERS **		
4681 4682 4683 4684 4685 4686 4687	023352	004537	003712		14:	JSR	RS, WRITEI	SET RTS & FULL DUPLEX (SO ST	EPLU WORK	5)
4683	023356	120000				VIAORB				
4684	023360	000142				TXEN!RX	EN!T!LOOP			
4685	023362	103003				BCC ERROR	. +8.	;BR IF NO ERROR		
4686	023364					ERROR		1 REPORT STACKED ERROR		
4687	023364	104460							TRAP	C\$ERRO
4688	023366					ESCAPE	TST	SKIP TO END OF TEST		
4688 4689	023366	104410							TRAP	CIESCA
4690	023370	000140							. WORD	L10020
4691	023310	000740							. MONO	F10050
4692	023372	004537	012072			JSR	RS, STEPLU	FLIP TSO BIT VALUE(WILL BE	MITETED TH	70
			OTSOLS			Jan	NJ, STEPEO	; FIFO DURING FLUSHING).	WITH IED TH	.0
4693	023376	000001						; FIFO DONING FLOSHING).		
4694		-	007710			100	OF MOTTET	- CLEAD BTC CET HOY (CO THAT	CD CI 00V	MONC?
4695	023400		003712			JSR	RS, WRITEI	CLEAR RTS. SET HOX (SO THAT	SM CLUCK	MUNKS)
4696	023404	120000				VIAORB				
4697	023406					TXEN!RX	EN!RTSND!TTLOOP	10		
4698	023410	103003				BCC ERROR	. +8.	BR IF NO ERROR		
4699	023412					ERROR		REPORT STACKED ERROR		
4700	023412	104460							TRAP	C\$ERRO
4701	023414					ESCAPE	TST	SKIP TO END OF TEST		
4702	023414	104410							TRAP	CIESCA
4703	023416								. WORD	L10020
4704										
4705	023420	004537	003566			JSR	R5.READI	READ VIA SHIFT REGISTER (SHO	ULD CAUSE	
4706	023424	120012				VIASR		: 8 CLOCKS FROM CB1 LEAD => F		
4707	023426	000000				000				
4708	023430	103003				BCC	.+8.	BR IF NO ERROR		
4709	023430 023432	200000				ERROR		REPORT STACKED ERROR		
4710	023432	104460				Ennon		, HEFORT STRENED ERROR	TRAP	C\$ERRO
4711	023434	104400				ESCAPE	TST	SKIP TO END OF TEST	III	CACHINO
4712	023434	104410				ESCAPE	131	ISKAP TO END OF TEST	TRAP	CSESCA
4712	023434	000073							. WORD	L10020
4713	023436	000072							, MUNU	F10050
4715	007440	A77074				600	02.14	LOOP INTTL ALL A CENT (VI	A CO1)	
4715	023440	077234				SOB	R2.1#	144 LOOP UNTIL ALL 4 SENT (V)	W CDT) ++	
4/10	007440		******		1	400	DE DYOUAD	0000 AND OUTON FOR 777		•
4/1/	023442	004537	010350			JSR	R5,RXCHAR	READ AND CHECK FOR 377		200
4718	023446	000377				377		* ERROR HERE INDICATES HI-SE	EED SK CL	UCK
4/19	023450	000000				0		** DIDN'T WORK.		
4714 4715 4716 4717 4718 4719 4720	023452	100000				NOCRDA				
4721	023454	103003				BCC	. +8.	BR IF NO ERROR		
4722	023456					ERROR		REPORT STACKED ERROR		
4721 4722 4723	023456	104460							TRAP	C\$ERRO
4724	023460					ESCAPE	TST	SKIP TO END OF TEST		
4725	023460	104410							TRAP	CIESCA
4726	023462	000046							. WORD	L10020
4727										
4727 4728	023464	004537	010350			JSR	R5,RXCHAR	READ AND CHECK FOR OOO		

CVDMECO.	DMV11 P11	LINE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 1		AL-84 11:12 NTA FLUSHING	117			SEQ 116
4730	02347					0		# DIDN'T WORK.			
4731 4732	02347	103003				NOCRDA BCC	.+8.	BR IF NO ERROR			
4733 4734	053200	104460				ERROR		REPORT STACKED ERROR		TRAP	C#ERROR
4735 4736	05320	2 104410				ESCAPE	TST	SKIP TO END OF TEST		TRAP	CHESCAPE
4737 4738	023504	000024								. WORD	L10020
4739 4740 4741	02350 02351 02351	000360	010350			JSR 360 0	R5,RXCHAR	:READ AND CHECK FOR 37 :* ERROR HERE INDICATE: :* DIDN'T WORK	7 5 HI-SPEE	SR CL	ОСК
4742 4743 4744	023520 023520	103003				NOCRDA BCC ERROR	. +8.	BR IF NO ERROR			
4745 4746	02352					ESCAPE	TST	SKIP TO END OF TEST		TRAP	C\$ERROR
4747 4748	02352	104410								TRAP . WORD	C\$ESCAPE L10020
4749 4750	023530				ENDTST				L10020:		
4751	023530								220020.	TRAP	CSETST

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MACY11 30A(1052) 12-JUL-84 11:12 PAGE 118
CVDMECO DMV11 LINE UNIT DIAGS
                                        TEST 2 -- INTEGRAL MODEM INTERFACE TEST
              12-JUL-84 10:56
CVDMEC. P11
                                        SBITL TEST 2 -- INTEGRAL MODEM INTERFACE TEST
  4752
  4753
                                        4754
  4755
                                                TEST 2 -- INTEGRAL MODEM INTERFACE TEST
                                        :.
  4756
                                        :.
  4757
                                        * THE INTEGRAL MODEM IS SELECTED BY THE PROGRAM AND A MESSAGE IS
  4758
                                            TRANSMITTED, RECEIVED, AND CHECKED USING A TURNAROUND CONNECTOR ON THE BOARD OR AT THE END OF A CABLE, THE FOLLOWING MESSAGE WILL BE
                                        :
  4759
  4760
                                        : .
                                            SENT IN BCP MODE WITH CRC-16 SPECIFIED:
                                        :.
  4761
                                        :
  4762
                                                SYNC SYNC 000 125 252 377 000 CRC1 CRC2 SYNC
  4763
                                        :
  4764
                                            IF THE P-TABLE FOR THE CURRENT UNIT INDICATES THAT NO EXTERNAL
                                        :
  4765
                                            TURNAROUND IS PROVIDED. THE TEST WILL BE SKIPPED FOR THAT UNIT.
                                        :.
  4766
                                        :
  4767
                                        4768
  4769
                                                BGNTST
  4770
                                                                                                T2::
        023532
  4771
                                                        PC. INIDHY
                                                                        SET TEST NO. FOR POSSIBLE PRINTOUT
        023532
                012737
                        000002
                                002414
  4772
                                                                        ; INIT DMV-11, ENTER MAINT LOOP
                                                JSR
        023540
                004737
                        005376
  4773
                                                JSR
INTGRL
                                                        RS.CKLPBK
                                                                        ISEE IF THIS INTERFACE CAN BE RUN
                004537
                        007532
        023544
  4774
                000001
        023350
  4775
                                                                        BR IF YES
                103002
                                                BCC
        023552
  4776
                                                                        MRONG INTERFACE - SKIP TEST
                                                        TST
  4777
        023554
                                                                                                        TRAP
                                                                                                                C$EXIT
  4778
        023554
                104432
                                                                                                         . WORD
                                                                                                                L10021-.
        023556
               001630
  4779
  4780
                                        :LOAD 6502 MICROCODE FOR INTEGRAL MODEM TEST INTO RAM PAGE 2
  4781
                                                                        IGET STARTING ADRS OF DMV MICROCODE IGET STARTING ADRS OF RAM PAGE 2
                                                        MCCODE,R1
                                                MOV
               012701
                        025410
                                        28:
  4782
        023560
                                                        BRAMADR, R2
        023564
                012702
                        001000
  4783
                                                                        SET DATA BYTE TO BE WRITTEN
        023570
                112137
                        023606
                                        34:
                                                MOVE
                                                        (R1)+.6#
  4784
                                                                        SET RAM WRITE ADRS
                        023604
                                                MOV
                                                        R2.48
        023574
                010237
  4785
                                                        RS, WRITEI
                                                                        MRITE A DATA BYTE INTO RAM
                                                JSR
        023600
                004537
                        003712
  4786
                                                . WORD
        023604
                000000
                                        48:
  4787
                                                 WORD
        023606
                000000
                                        68:
  4788
                                                INC
                                                                        INCR RAM ADRS
                                                        R2
  4789
        023610
                005202
                                                        R1. JENDCOD
                                                                        SEE IF ALL CODE LOADED YET
        023612
  4790
                020127
                        026235
                                                                        BR IF NOT
  4791
        023616
                103764
  4792
                                        READ AND VERIFY 6502 MICROCODE IN RAM
  4793
                                                                        IGET STARTING ADRS OF DMV MICROCODE TO CHECK
                                                        MCCODE, R1
        023620 012701
                                                MOV
  4794
                        025410
                                                        GRAMADR, R2
                                                                        IGET STARTING ADRS OF RAM PAGE 2
                                                MOV
        023624
                012702
                        001000
  4795
                                                                        ISET RAM READ ADRS
                                                        R2,10#
        023630
                010237
                        023640
                                                MOV
                                        84:
  4796
                                                        R5, READI
                                                                        IREAD A RAM BYTE
        023634
                        003566
                                                JSR
                004537
  4797
                                                . WORD
        023640
                000000
                                        10$:
  4798
                                                 . WORD
                                        124:
  4799
        023642
                000000
                                                                        :SEE IF BYTE IS CORRECT
        023644
                        023642
                                                CMPB
                                                        (R1)+,12#
                122137
  4800
                                                                        BR IF CORRECT
                                                BEQ
  4801
        023650
                001422
                                                        168
                                                                        ISET RAM ADRS FOR ERROR REPORT
                                                        R2. REGNUM
                                                MOV
        023652
                010237
                        002336
  4802
                                                                        SET EXPECTED RAM DATA
                                                        GDATA
                        002324
                                                CLR
  4803
        023656
                005037
                                                        -1(R1),GDATA
        023662
                                                MOVB
  4804
                116137
                        177777
                                002324
                                                                        SET ACTUAL RAM DATA
        023670
                                                        BDATA
  4805
                005037
                        002326
                                                CLR
        023674
                        023642
                                002326
                                                MOVB
                                                        124,BDATA
                113737
  4806
                                         REPORT RAM ERROR LOADING MICROCODE
  4807
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VONECO	DW11	LINE UNIT	DIAGS	MACY11	30A(1052 TEST 2) 12-JU	L-84 11:12 P	NGE 119 REACE TEST		SEQ 1
4808	023702		20.50			GEDF	EM79,ERR13			
4809	023102							"DEVICE FATAL" ERROR # 38		
4810	023702	104455							RAP	CHERDF
4811	023704	000046							MORD	36
4812	023706								MORD	EM79
4813	023710	021030							MORD	ERR13
4814	023712					ESCAPE	TST		240	CAECCAE
4815	023712	104410							RAP	CHESCA
4816	023714	001472					-		MORD	L10021
4817	023716				16#:	INC	R2	INCR RAM ADRS		
4818	023720		026235			CIP	R1. ØENDCOD	ISEE IF ALL CODE CHECKED YET		
4819	023724	103741				BLO	81	tow Th. Wol		
4820						WTA 440	USYRT FOR OPE	DATTON		
4821		******			SET UP	JSR	RS, MRITEI	RESET THE USYRT		
4822	023726	004537	003712			VIACRE	M3'MWTIET	INESET THE OSTAT		
4625	023732	120000				PTCMOID	TR!PRESET			
4024	023734	000031	003712			160	RS. WRITEI	CLEAR USYRT RESET BIT		
4623	023736	120000	003115			JSR VIAORE	M31mm2162	1000111		
4020	023742 023744 023746	120000				RTSID!D	TR			
4021	023744	000030	003712			JSR	RS, WRITEI	ISET SYNCH CHAR - 226		
4020	023753	120404	003112			PCSARL				
4627	023752 023754	000226				226				
4831	023754	012737	065400	023.		HOV	CODCYP!STRIPS	IDLES!CRC16.184 :SET DOCHP.STRIP.	IDLE.	CRC16
4832	023764	000337	065400 023776	•		SMAB	184	IGET DATA INTO LO BYTE		
25.00	023770	004537	003712			JSR	RS, WRITEI	PROGRAM THE PCSARH		
4818 4819 4820 4821 4822 4823 4824 4825 4826 4827 4828 4829 4830 4831 4832 4833 4834 4835 4836 4837 4838	023736 023764 023776 023776	000031 004537 120000 000030 004537 120404 000226 012737 000337 004537 120405 000000 004537				JSR PCSARH				
4835	023776	000000			184:	. MORD	0			
4836	024000 024004 024006 024010	004537	005410			JSR	R5, CKUSTS	OH USYRT STATUS FOR INITIALIZED	STATE	
4837	024004	000110				110 BCC ERROR		; TBMT-1, TSO-1		
4838	024006	103003				BCC	. +8.	IF ERROR, PRINT REPORT		
4839	024010					ERROR				
4840	024010	104460						T.	RAP	CSERRO
4841	024012					ESCAPE	TST			CAFECON
4842	024012	104410							RAP	CIESCA
4842 4843	024012	001372							MORD	L10021
4844	024016 024022 024026 024026	004537	003712			JSR	RS, WRITEI	SET TSOM IN USYRT		
4845	024022	120403 000001				TOSRH				
4846	024024	000001				TSOM		ILOAD 237 CHAR FOR INTGRL HODEH S	VALUE	MITATIO
4847	054056	004537	003712			JSR TDSRL	RS, WRITEI	ILUM 237 CHAR FOR THIGHT HODER 3	THE PART	MT24170
4848	024032 024034	120402 000237				TUSAL				
4844 4845 4846 4847 4848 4849 4850 4851 4852 4853	024034	000237				237 JSR		LOK FOR TENT - 0		
4850	024036	004537	006014				R5,CKTBHT	TOR FOR IBRIL - O		
4651	024042	000000				0		IF ERROR, REPORT ERROR		
4652	024044	103003				BCC ERROR	8.	12 Emini, McToni Emini		
4633	024046	10000				EMMUM		1	RAP	CSERRO
4854	024046	104460				ESCAPE	TST			
4855	024050	104410				ESCAPE	131	1	RAP	CIESCA
4856	024050								WORD	L10021
4857	024052	001334								
4858					. TMTTTA	TE 4502	TEST OF INTEGR	AL HODEN		
4859	024054	005077	156346		1242124	CLR	ACEL A	ICLEAR SEL4		
4860	024060		001000	156340		MOV	BSEL4 BRAMADR, BSEL4	ISET START ADRS OF RAM CODE IN SE	L4	
	THE RESERVE OF THE PERSON.	ATELLI		230370				TOOLE MILESON COME TO EVECUTE AT	DC TN	CEI A
4861 4862 4863	024064	112777	000005	156326		MOVE	OF XECUT, MISSEL	2 I ISSUE M-LOOP CHOO TO EXECUTE AT	LC TH	3664

CADHECO	DHV11	INE UNIT	DIAG3	MACY11	30A(1052		L-84 11:12 PAG		SEQ 119
CVDMEC.	P11 1	12-JUL-84	10:56		1521 5	INIEG	RAL MODEM INTERF	PACE TEST	
4864	024074	012701	023420			MOV	#10000.,R1	INIT WAIT LOOP COUNTER	
4865	024100	005301			224:	DEC	R1	IDECREMENT COUNTER	
4866	024102	000240				BNE	221	IBR IF NOT DONE COUNTING YET	
4868	024106	132777	000200	156306		BITB	OMRDY, 88SEL2	SEE IF M-LOOP FINISHED PROPERLY	
4866 4867 4868 4869 4870	024114	001013				BNE	241	IBR IF YES	
4870	024116	004737	004166	000704		JSR	PC, GETWSR	GET CSR'S FOR PRINTOUT	
4871	024122	012737	000005	002324	REPORT	MOV MRDY TI	MEOUT ERROR	IDENTIFY REQUESTED FUNCTION	
4872 4873	024130				INCHON	GEDF	EM4, ERR4		
4874	051200							"DEVICE FATAL" ERROR # 39	
4875	024130	104455						TRAP	CHERDF
4876	024132	000047						. MORD	39
4877 4878	024134 024136	014307						.MORO .MORO	EM4 ERR4
4879	024140	OFOTER				ESCAPE	TST		Court
4880 4881	024140	104410						TRAP	CIESCAPE
4861	024142	001244						.MORD	L10021
4882	024144	105777	156262		241:	TSTB	8BSEL6	SEE IF MY ERRORS OCCURRED IN TEST	
4884	024150	001002	130505		2441	BNE	261	IBR IF ERROR DETECTED	
4885	024152	000137	025406			JHP	901	SUCCESSFUL COMPLETION OF TEST	
4886	024156	012737	000007	002336	264:	HOV	07, REGNUM	ISET REG NO. FOR PRINTOUT	
4887	024164	005037	002324			CLR	GDATA BDATA	CLEAR EXPECTED DATA AREA	
4889	024170	003037	002326		DW FO	R ERROR		ICCEUM WELCHE DIVIN MIEN	
4890	024174	127727	156232	000001		CIPB	88SEL6, #1	ICHK FOR ERROR 1	
4891	024202	001006				BNE	264	IBR IF NOT	
4892	024204				REPORT	TOMT NO	T SET EM73,ERR12		
4882 4883 4884 4885 4886 4887 4888 4889 4890 4891 4892 4893 4894 4895 4896 4897	05-50-					GEDI	EIII 3, EMILE	"DEVICE FATAL" ERROR # 40	
4895	024204	104455						TRAP	CHEROF
4896	024206	000050						. MORO	40
	024210	014777						. MORO . MORO	EN73 ERR12
4899	024212	020714				ESCAPE	TST	.mono	CHMTE
4900	024214 024214 024216	104410						TRAP	CHESCAPE
4901	024216	001170						. WORD	L10021
4902	024220	127727	156206	000000	284:	R ERROR :	2 88SEL6,42	ICHK FOR ERROR 2	
4904	024226	001006	130500	000002	2011	BIVE	301	IBR IF NOT	
4905					REPORT	TOM THET	T SET		
4906	024230					GEDF	EM73,ERR12		
4907	024230	104455						"DEVICE FATAL" ERROR # 41	CIEROF
4909	024232	000051						. WORD	41
4910	024232 024234	014777						, MORD	EM73
4911	024236	020714						. MORD	ERR12
4912	024240	104410				ESCAPE	151	TRAP	CHESCAPE
4898 4899 4900 4901 4902 4903 4904 4905 4906 4907 4908 4909 4910 4911 4912 4913 4914 4915 4916 4917 4918	024242	104410						, MORD	L10021
4915						R ERROR			
4916	024244	127727	156162	000003	304:	CHES	BSEL6, 43	CHK FOR ERROR 3	
4917	024252	001006			.050/07	TONT NO	314 T SET	IBR IF NOT	
4919	024254				REPORT	GEDF	EM73,ERR12		
7,27	V5-12-34								

VOMECO	DMV11 P11	LINE UNIT	DIAG3 10:56	MACY11	30A(1052) TEST 2		L-84 11:12 F		ST .		SEQ 1
4920 4921	024254	104455							"DEVICE FATAL" ERROR	TRAP	C#ERDF
4921 4922 4923 4924 4925 4926 4927 4928 4929	024256 024266 02426	014777								. MORD . MORD . MORD	42 EM73 ERR12
4925	024264					ESCAPE	TST				
4926	024264	104410				WE SE				TRAP . WORD	CIESCAP
4928	000036			000004	CHK FOR	CHPB	88SEL6.44	· CHE S	OR ERROR 4		
4930 4931	024276		156136	00000		BNE	321	BR IF			
4932 4933 4934 4935 4936 4937 4938 4939	024300		000001	002336	, ner on	MOV	01, REGNUM EMBO, ERR14	SET F	NEG NO. FOR PRINTOUT		
4934									"DEVICE FATAL" ERROR		
4935	024300									TRAP . WORD	C#ERDF 43
4937	024310	000053								WORD	EMBO
4938	024314	021146								. WORD	ERR14
4939	024316	101110				ESCAPE	TST			TRAP	CIESCAP
4941	024316	001066								. MORD	L10021-
4941 4942 4943						RERROR	5				
4943	024322	127727	156104	000005	324:	CHPB	885EL6,45	ICHK F	OR ERROR 5		
4944 4945	024330	001006			REPORT		T SET	10M TI	NOT		
4946 4947	024332					GEDF	EM73,ERR12				
4947	00477	104455							"DEVICE FATAL" ERROR	TRAP	CIEROF
4948 4949	024334	104455								. MORD	44
4950	024336	014777								. MORD	EM73
4951	024340	020714				ESCAPE	TST			. WORD	ERR12
4952 4953	024342	104410				ESCAPE	131			TRAP	CHESCA
4954	024344	001042								. WORD	L10021-
4954 4955 4956	024346	127727	186060	000006	344:	CHP8	88SEL6.46	·CW I	FOR ERROR 6		
4957	024354		130000	000000	344:	BNE	364	BR I			
4957 4958 4959 4960 4961					REPORT	TBMT NO	T SET				
4959	024356					GEDF	EM73,ERR12		"DEVICE FATAL" ERROR	445	
4961	024356	104455						•	DEVICE PRINE ENNON	TRAP	C\$ERDF
4705	024360	000055								. WORD	45
4963	024362	014777								. WORD	EM73 ERR12
4964 4965	024364	020714				ESCAPE	TST				
4966	024360	104410								TRAP	CHESCA
4967	024370	001016			.CW EC	50000	,			, WORD	L10021
4968 4969	024372	127727	156034	000007	364:	R ERROR	88SEL6, 07	1CHK	FOR ERROR 7		
4970	024400					BNE	384	BR I			
4971	00440				REPORT		T SET				
4972 4973	024402	•				GEDF	EM73,ERR12		"DEVICE FATAL" ERROR	0 46	
4974	024402									TRAP	CSERDF
4975	024404									. WORD	46

									SEQ 121
CYDMECO	DHV11	LINE UNIT	DIAG3	MACY11	30A(1052		L-84 11:12 PA		
CVDMEC.	P11	12-JUL-84	10:56		TEST 2	INTEG	RAL MODEM INTER	FACE TEST	
4976	024406							. WORD	EM73
4977	024410							. WORD	ERR12
4978	024412					ESCAPE	TST		********
4979	024412							TRAP	CHESCAPE
4980	024414	000772			-	-		. WORD	L10021
4981 4982 4983 4984 4985 4986 4987 4988 4989						RERROR		OW 500 50000 A	
4982	024416		156010	000010	384:	CHPB	88SEL6,48.	CHK FOR ERROR 8	
4983	024424	001006			00000	BNE	404	IBR IF NOT	
4984					REPORT		T SET		
4965	024426					GEDF	EM73,ERR12	MOENTCE EATAL # EDOCO A 47	
4986								"DEVICE FATAL" ERROR # 47	CAEDOE
4987	024426	104455						TRAP	CIERDF
4968	024430	000057						. MORD	47
4989	024432	014777						. MORD	EM73
4990	024434	020714					***	. MORD	ERR12
4991	024436					ESCAPE	151	7040	CAECCARE
4992	024436							TRAP	CIESCAPE
4993	024440	000746				-	•	. MORD	L10021
4994						RERROR		OW 500 50000 0	
4995	024442	127727	155764	000011	404:	CMPB	88SEL6, 49.	CHK FOR ERROR 9	
4996	024450	001006			00000	BNE	421	IBR IF NOT	
4997					REPORT	RDA NOT	SET COOLS		
4998	024452					GEDF	EM75,ERR12	- MOCUTOE CATAL M COOCO A 40	
4999								"DEVICE FATAL" ERROR # 48	CAEDOC
5000	024452	104455						TRAP	CIEROF
5001	024454	000060						. MORD	48
2005	024456	015035						. WORD	EM75
5003	024460 624462 024462	020714						. WORD	ERR12
5004	624462					ESCAPE	151	7040	CACCCADE
5005	024462	104410						TRAP	CIESCAPE
5006	024464	000722						. WORD	L10021
5007						R ERROR		OW 500 50000 10	
5008	024466	127727	155740	000012	428:	CHPB	88SEL6, #10.	CHK FOR ERROR 10	
5009	024474	001017			00000	Division .	441	IBR IF NOT	
5010				000000	INEPORT		ATA MISCOMPARE		
5011	024476		000000	002336		MOV	40, REGNUM	SET REG NO. FOR PRINTOUT	
2012	024504	112737	000000	002324		HOVE	0000,GDATA	SET EXPECTED DATA	
5015	024512	117737	155716	002326		HOVB	BBSEL7, BDATA	SET ACTUAL DATA	
5014	024520	THE THE				GEDF	EM34,ERR10	"DEVICE FATAL" ERROR # 49	
2012	-							TRAP	C#ERDF
3016	024520	104455							49
3017	024522	000061						. WORD	EM34
2019	024524	014502						WORD	ERR10
2019	024526	020364				-	***	. WORD	EMMIO
2020	024530					ESCAPE	TST	TRAP	CIESCAPE
3021	024530	104410						WORD	L10021
4991 4992 4993 4994 4995 4996 4997 4998 4999 5000 5001 5002 5003 5006 5007 5006 5007 5010 5011 5012 5013 5014 5015 5016 5017 5018 5019 5020 5021 5022 5023 5024 5025 5026 5029 5030	024532	000654			.CW 50	0 50000	**	. WORD	CIOOSI.
3023	004534	107707	188433	000017		R ERROR	00CEL 4 ALL	-CW END EDDOD 11	
5024	024534	127727	122015	000013	446:	CHPB	88SEL6, #11.	CHK FOR ERROR 11	
3023	024542	001006			.05000*	BNE MOT	461	Iou T. Iou	
3026	004844				REPORT		SET		
5027	024544					GEDF	EM75, ERR12	#DEVICE FATAL" ERROR # 50	
2028	00454	*****						TRAP	C#ERDF
5029	024544	104455							50
5030	024546							.WORD	EM75
5031	024550	015035						. MORD	EIII

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CVDMECO CVDMEC.	DHV11	LINE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 2) 12-JU	A-84 11:12 PA	AGE 123 RFACE TEST	SEQ 122
5032	024552							, MORD	ERR12
5033	024554					ESCAPE	TST		
5034	024554	104410						TRAP	CIESCAPE
5035	024556	000630						, WORD	L10021
5034 5035 5036 5037 5038 5039 5040 5041 5042 5043					CHK FO	RERROR			
5037	024560	127727	155646	000014	461:	CMPB	98SEL6, #12.	ICHK FOR ERROR 12	
5038	024566	001017				BNE	484	; BR IF NOT	
5039					REPORT		MATA MISCOMPARE	ERROR	
5040	024570		000000	002336		MOV	00, REGNUM	ISET REG NO. FOR PRINTOUT	
5041	024576		000125	002324		MOVB	#125,GDATA	ISET EXPECTED DATA	
5042	024604		155624	002326		MOVB	BSEL7, BDATA	ISET ACTUAL DATA	
5043	024612					GEDF	EM34,ERR10		
5044								* "DEVICE FATAL" ERROR # 51	
5045	024612							TRAP	C#ERDF
5046	024614							. MORD	51
5047	024616	014502						.MORD	EM34
5048 5049	024620	020364						, MORD	ERR10
5049	024622					ESCAPE	TST		
5050 5051 5052 5053 5054 5055 5056 5056	024622	104410						TRAP	CIESCAPE
5051	024624	000562						. WORD	L10021
5052						RERROR			
5053	024626		155600	000015	484:	CHPB	48SEL6, #13.	CHK FOR ERROR 13	
5054	024634	001006				BNE	504	BR IF NOT	
5055					REPORT	RDA NOT			
5056	024636					GEDF	EM75, ERR12		
5057								# "DEVICE FATAL" ERROR # 52	
2026	024636							TRAP	C#ERDF
5059	024640	000064						. MORD	52
5060	024642	015035						.MORD	EM75
5061	024644	020714						. MORD	ERR12
5062 5063	024646					ESCAPE	TST		
5063	024646	104410						TRAP	CIESCAPE
5064	024650	000536						. WORD	L10021
5065						RERROR			
5066 5067 5068 5069 5070	024652		155554	000016	504:	CHPB	88SEL6, #14.	ICHK FOR ERROR 14	
5067	024660	001017				BNE	524	IBR IF NOT	
5068					REPORT	SCA.D D	ATA MISCOMPARE	ERROR	
5069	024662	012737	000000	002336		MOV	00, REGNUM	SET REG NO. FOR PRINTOUT	
5070	024670	112737	000252	002324		HOVB	0252,GDATA	SET EXPECTED DATA	
5071	024676	117737	155532	002326		HOVB	BBSEL7, BDATA	SET ACTUAL DATA	
5071 5072 5073	024704	12 11 11 11				GEDF	EM34,ERR10	##PUPAR CARAL # 50000 5 55	
5073								#DEVICE FATAL" ERROR # 53	045005
5074	024704							TRAP	C\$ERDF
5075	024706	000065						.WORD	53
5076	024710	014502						.WORD	EM34
5077	024712	020364					***	.WORD	ERR10
5078	024714					ESCAPE	151		04500405
5079	024714	104410						TRAP	CIESCAPE
5080 5081	024716	000470						, WORD	L10021
5061						RERROR		A.H. 500 50000 15	
5082 5083 5084 5085	024720		155506	000017	524:	CHPS	88SEL6, #15.	CHK FOR ERROR 15	
5083	024726	001006				BNE	544	IBR IF NOT	
5084					REPORT	RDA NOT			
5085	024730					GEDF	EM75,ERR12		
5086								* "DEVICE FATAL" ERROR # 54	045005
5087	024730	104455						TRAP	C\$ERDF

											SEQ 123
CVDMECO	DMV11	LINE UNIT	DIAG3	MACY11	30A(1052		L-84 11:12 PA				
CYDHEC.	P11	12-JUL-84	10:56		IEST 2	THIEG	RAL MODEM INTER	FACE I	ESI		
5000	024732	000066								, WORD	54
5088 5089	024734									WORD	EM75
5090	024736									, WORD	ERR12
5091	024740					ESCAPE	TST				
5092	024740									TRAP	CIESCAPE
5093	024742									. WORD	L10021
5090 5091 5092 5093 5094						RERROR					
5095 5096	024744		155462	000020	544:	CHPB	88SEL6, #16.	: CHK	FOR ERROR 16		
5096	024752	001017			REPORT	BNE BNE	564 ATA MISCOMPARE	198	IF NOT		
5097	024754	012737	000000	002336	INCPURI	MOV	WIN HISCOLLANE	SE1	REG NO. FOR PRINTO	IIT .	
5098 5099	024762		000377	002324		HOVB	#0,REGNUM #377,GDATA	SET	EXPECTED DATA	•	
5100	024770		155440	002326		MOVB	SBSEL7, BOATA	SET	ACTUAL DATA		
5101	024776			***************************************		GEDF	EM34,ERR10				
5102									"DEVICE FATAL"	ERROR # 55	
5103	024776									TRAP	C\$ERDF
5104	025000	000067								.WORD	55
5105	025002	014502								.WORD	EM34
5106 5107	025004	020364				ESCAPE	TET			.WORD	ERR10
5106	025006	104410				ESCALE	131			TRAP	CIESCAPE
5109	025010									. WORD	L10021
5110					CHK FO	RERROR	17				
5111	025012		155414	000021	564:	CHPB	88SEL6, #17.		FOR ERROR 17		
5112	025020	001006				BNE	584	;BR	IF NOT		
5113					REPORT						
5114	025022					GEDF	EM75,ERR12		"DEVICE FATAL"	EDDOO A S6	
5115 5116	025022	104455							DEATCE LAUVE	TRAP	C\$ERDF
5117	025024	000070								. WORD	56
5118	025026	015035								. WORD	EM75
5119	025030	020714								. WORD	ERR12
5120	025032					ESCAPE	TST				
5121	025032	104410								TRAP	CIESCAPE
5122	025034	000352			-	20000	10			. WORD	L10021
5124	025036	127727	155370	000022	584:	CHPB	88SEL6, #18.	-04	FOR ERROR 18		
5125	025044		233310	22000	307.	BNE	604		IF NOT		
5126					REPORT		ATA HISCOMPARE				
5122 5123 5124 5125 5126 5127 5128 5129 5130 5131 5132	025046		000000	002336		HOV	00, REGNUM	; SET	REG NO. FOR PRINTO	UT	
5126	025054	112737	000000	002324		HOVB	#000,GDATA		EXPECTED DATA		
5129	025062		155346	002326		MOVB	SESEL7, BOATA	SET	ACTUAL DATA		
5130	025070					GEDF	EM34,ERR10		"DEVICE FATAL"	E0000 A 57	
5132	025070	104455							DEATCE LYINE	TRAP	C\$ERDF
5133	025072									, WORD	57
5133 5134	025074									. WORD	EN34
5135 5136	025076	020364								. WORD	ERR10
5136	025100					ESCAPE	TST				
5137 5138 5139	025100									TRAP	CIESCAPE
5136	025102	000304			.CW EC	0 50000	10			. WORD	L10021
5140	025104	127727	155322	000023	604:	R ERROR	88SEL6, 419.		FOR ERROR 19		
5141	025112		133355	VVVV23	0041	BNE	624	.88	IF NOT		
5142	023112	001000			REPORT		T SET	1011			
5143	025114					GEDF"	EM36,ERR10				

CVDMECO.		INE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 2		L-84 11:12 PA		EST		3EW 124
5144									"DEVICE FATAL" ERROR # 58	Control of the Control	
5145	025114	104455								RAP	CIERDF
5146	025116	000072								WORD	58
5147	025120	014551								WORD	EM36
5148	025122	020364				ESCAPE	TET			MUNU	ERR10
5149	025124	104410				COUNTE	131		•	RAP	CIESCAPE
5150 5151	025126	000260								WORD	L10021
5152	VE3150	OUCCO			CHK FO	R ERROR	20			mone	C100E1
5153	025130	127727	155276	000024	621:	CHPB	88SEL6, #20.	1 CHK	FOR ERROR 20		
5154	025136	001006				BNE	641	BR :	IF NOT		
5155		Name and State			REPORT						
5152 5153 5154 5155 5156 5157 5158	025140					GEDF	EM75,ERR12				
5157									"DEVICE FATAL" ERROR # 59		
5158	025140	104455								RAP	C\$ERDF
2124	025142	000073								WORD	59
5160	025144	015035								WORD	EM75
5161	025146 025150	020714				ESCAPE	TET			WORD	ERR12
5162 5163	025150	104410				ESCAPE	131			RAP	CIESCAPE
5164	025152	000234								MORD	L10021
5165	-	********			CHK FO	R ERROR	21				
5166	025154	127727	155252	000025	641:	CHPB	88SEL6, 421.	1 CHK	FOR ERROR 21		
5167	025162	001017				BNE	66#	IBR I	IF NOT		
5168					REPORT		MATA MISCOMPARE				
5169	025164	012737	000000	002336		MOV	40, REGNUM	SET	REG NO. FOR PRINTOUT		
5170	025172	112737	000160	002324		MOVB	#160,GDATA		EXPECTED DATA		
5171	025200	117737	155230	002326		MOVB	BSEL7, BDATA	SET	ACTUAL DATA		
5172	025206					GEDF	EM34,ERR10		"DEVICE FATAL" ERROR # 60		
5173 5174	025206	104455								RAP	C#ERDF
5175	025210	000074								MORD	60
5176	025212	014502								MORD	EH34
5177	025214	020364								MORD	ERR10
5178	025216					ESCAPE	TST				
5179	025216	104410								RAP	CIESCAPE
5180	025220	000166								MORD	L10021
5181						R ERROR					
5182	025222	127727	155204	000026	664:	CHPB	88SEL6,422.		FOR ERROR 22		
5183	025230	001006			DEDOOT	BNE NOT	684	1 BK	IF NOT		
5185	025232				REPORT	RDA NOT	SET EM75,ERR12				
5186	VEJEJE					GEUF	CITY CHATE		"DEVICE FATAL" ERROR # 61		
5187	025232	104455								RAP	C#ERDF
5188	025234	000075								MORD	61
5189	025236	015035								WORD	EM75
5190	025240	020714								WORD	ERR12
5191	025242	4				ESCAPE	TST				
5192	025242	104410								RAP	CIESCAPE
5181 5182 5183 5184 5185 5186 5187 5188 5189 5190 5191 5192 5193 5194	025244	000142		*	-					WORD	L10021
5194	000011		400444	******		R ERROR		-	500 50000 07		
5195	025246	127727	155160	000027	684:	CHPB	88SEL6, 423.		FOR ERROR 23		
5196 5197	025254	001017			REPORT	BNE BNE	704 DATA MISCOMPARE	E0000	IF NOT		
5196	025256	012737	000000	002336	INCPURI	MOV	40, REGNUM	CHACK	REG NO. FOR PRINTOUT		
5199	025264	112737	000034	002324		HOVB	4034 GDATA		EXPECTED DATA		
3277	023204	225.01					2001,001111	,			

CVDMECO.		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052 TEST 2		L-84 11:12 PAG RAL HODEM INTERF	E 126 ACE TE	ST			3CW 123
5200	025272		155136	002326		MOVB	SBSEL7, BDATA	SET	ACTUAL DATA			
5201 5202 5203 5204 5205 5206 5207 5208 5209 5210 5211 5212 5213 5214 5215 5216 5217 5218 5219 5220 5221 5222 5223 5224 5225 5226 5227 5226 5227 5228 5229 5230 5231 5232 5232	025300					GEDF	EM34,ERR10		"DEVISOR FASA" "			
5202									"DEVICE FATAL"	ERROR #		
5203	025300	104455									TRAP	C\$ERDF
5204	025302	000076									. WORD	62
5205	025304	014502									. WORD	EM34
5206	025306	020364									. WORD	ERR10
5207	025310					ESCAPE	151					
5208	025310	104410									TRAP	C\$ESCAPE
5209	025312	000074			-		••				. WORD	L10021
5210						R ERROR		-	500 50000 04			
5211	025314		155112	000030	704:	CMPB	8BSEL6,424.		FOR ERROR 24			
5212	025322	001006				BNE	72\$	BR I	F NOT			
5213					REPORT		SET					
5214	025324					GEDF	EM75,ERR12					
5215								8	"DEVICE FATAL"	ERRUR #		
5216	025324	104455									TRAP	C\$ERDF
5217	025326	000077									. WORD	63
5218	025330	015035									. WORD	EM75
5219	025332	020714									. WORD	ERR12
5220	025332 025334					ESCAPE	TST					
5221	025334	104410									TRAP	CIESCAPE
5222	025336	000050									. WORD	L10021
5223						R ERROR						
5224	025340		155066	000031	724:	CMPB	8BSEL6,425.	: CHK	FOR ERROR 25			
5225	025346	001011				BNE	746	BR I	F NOT			
5226					REPORT							
5227	025350		000001	002336		MOV	#1.REGNUM	SET	REG NO. FOR PRINT	OUT		
5228	025356					GEDF	EM81,ERR14					
5229									"DEVICE FATAL"	ERROR #		
5230	025356										TRAP	C\$ERDF
5231	025360	000100									. WORD	64
5232	025362	015201									. WORD	EM81
5233	025364	021146									. WORD	ERR14
5234	025366					ESCAPE	TST					
5235	025366	104410									TRAP	C#ESCAPE
5236	025370	000016									. WORD	L10021
5237	025372	004737	004166		748:	JSR	PC.GETWSR	GET	CSR'S FOR PRINTOU	T		
5236					REPORT	INVALID	ERROR CODE FROM	6502				
5239	025376					GEDF	EM82,ERR3					
5235 5236 5237 5238 5239 5240 5241 5242 5243 5244 5245 5246 5247 5248									"DEVICE FATAL"	ERROR #	65	
5241	025376	104455									TRAP	C\$ERDF
5242	025400	000101									. WORD	65
5243	025402	015225									. WORD	EM82
5244	025404	020072									. WORD	ERR3
5245												
5246	025406				901:							
5247	025406				ENDTST							
5248	025406									L10021:		
5249	025406	104401									TRAP	C\$ETST

SEQ 126

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CYDNECO DMV11 LINE UNIT DIAGS
                                      MACY11 30A(1052) 12-JUL-84 11:12 PAGE 127
                                                   TEST 2 -- INTEGRAL MODEM INTERFACE TEST
                 12-JUL-84 10:56
CVDMEC.P11
                                                   MCODE:
  5250
         025410
  5251
5252
5253
5254
5255
5256
5257
5258
5259
5260
5261
5262
5263
                                                   :LINE# LOC
                                                                   CODE
                                                                                  LINE
                                                   10001 0000
                                                                                           *= $0200
                                                                                                                          START OF MICROCODE FOR INTEGRAL
                                                   10002 0200
                                                   10003
                                                           G500
                                                   :0005
                                                           0200
                                                   10006
                                                           0200
                                                                   10007
                                                           0200
                                                                   I THIS IS THE 6502 MICROCODE WHICH IS LOADED INTO RAM AND EXECUTED FOR THE
                                                                  PURPOSE OF TESTING THE INTEGRAL MODEM ON THE MODEA, AT 56K BAUD. AFTER THE LSI-11 PROGRAM DOES SOME INITIAL SETUP, IT TRANSFERS CONTROL TO THIS CODE IN RAM, AND WAITS FOR COMPLETION OF THE TEST, AS INDICATED BY MRDY SET. THIS CODE TRANSMITS, RECEIVES, AND CHECKS THE FOLLOWING CHARACTERS:

2 SYNCH CHARACTERS, 5 DATA CHARACTERS 000, 125, 252, 377, 000, 2 CRC-16; CHARACTERS 160 AND 034, AND 2 TERMINATING SYNCHS. THE MESSAGE IS SENT USI CHARACTER (DDCHP) MODE, THE SYNCH CHARACTER USED IS 226, STRIP SYNCH AND THE MODES ARE SET. AND THE DATA CLOCK IS PROVIDED BY THE INTEGRAL MODES.
                                                   10008
                                                           0200
                                                           0200
                                                   :0009
                                                           0200
                                                   :0010
                                                   :0011
                                                           0200
  5264
                                                   :0012
                                                           0200
  5265
                                                           0200
                                                   :0013
  5266
                                                   :0014
                                                           0200
  5267
                                                           0200
                                                                     IDLE MODES ARE SET, AND THE DATA CLOCK IS PROVIDED BY THE INTEGRAL MODEM.
                                                   :0015
                                                           0200
                                                                   1 ALL DATA AND CRC CHARACTERS ARE CHECKED AS THEY ARE RECEIVED. AND THE CRC
  5268
                                                   :0016
                                                           0200
                                                                     ERROR CHECK BIT IS CHECKED TO BE SET WITH RECEPTION OF THE LAST DATA
  5269
                                                   :0017
                                                                   : CHARACTER (000).
  5270
                                                   :0018 0200
                                                                   5271
                                                   10019 0200
  5272
                                                   10020
                                                           0200
  5273
                                                   :0021
                                                           0200
                                                                                    :EQUATES FOR BIT DEFINITIONS
  5274
                                                   :0022
                                                           0200
                                                                                  BITO
                                                                                           -81
                                                   10023 0200
10024 0200
10025 0200
  5275
                                                                                           -82
                                                                                  BIT1
  5276
                                                                                           -84
                                                                                  BIT2
  5277
                                                                                  BIT3
                                                                                           -810
                                                   :0026
  5278
                                                           0200
                                                                                  BIT4
                                                                                           -820
  5279
                                                   :0027
                                                           0200
                                                                                  BIT5
                                                                                           -840
  5280
                                                                                           -8100
                                                   :0058
                                                           0200
                                                                                  BIT6
  5281
                                                   10029 0200
                                                                                           -8200
                                                                                  BIT7
  5282
                                                   10030 0200
                                                                                           -8400
                                                                                  BIT8
  5283
                                                   :0031 0200
                                                                                           -81000
                                                                                  BIT9
  5284
                                                   10032 0200
                                                                                           -82000
                                                                                  BIT10
  5285
                                                   10033 0200
                                                                                           -84000
                                                                                  BIT11
  5286
                                                   :0034
                                                           0200
                                                                                  BIT12
                                                                                           -81000G
  5287
                                                   :0035
                                                           0200
                                                                                  BIT13
                                                                                           -820000
  5288
                                                   :0036
                                                           0200
                                                                                  BIT14
                                                                                           -840000
                                                                                           -8100000
  5289
                                                   :0037
                                                                                  BIT15
  5290
5291
5292
5293
5294
                                                   10038
                                                   :0039
                                                   :0040
                                                           0200
                                                   :0041
                                                                                    ADDRESS EQUATES FOR CSR REGISTERS
                                                           0200
                                                   10042
                                                           0200
                                                                                  SELO
                                                                                           -$10
  5293
                                                   10043
                                                           0200
                                                                                  BSELO -SELO
  5296
                                                   :0044
                                                           0200
                                                                                  BSEL1 -SELO+1
  5297
                                                   10045 0200
                                                                                  SEL2
                                                                                           -SEL0+2
  5298
5299
5300
                                                   10046
                                                           0200
                                                                                  BSEL2
                                                                                           -SEL0+2
                                                                                  BSEL3
                                                                                           -SEL0+3
                                                   10047
                                                           0200
                                                   10048
                                                                                           -SEL0+4
                                                           0200
                                                                                  SEL4
                                                                                  BSEL4
  5301
                                                   10049
                                                           0200
                                                                                           -SEL0+4
  5302
                                                   10050
                                                           0200
                                                                                  BSEL5
                                                                                           -SEL0+5
                                                                                  SEL6
  5303
                                                   10051
                                                           0200
                                                                                           -SEL0+6
  5304
                                                                                  BSEL6
                                                                                           -SEL0+6
                                                   :0052
                                                           0200
  5305
                                                           0200
                                                                                  BSEL7
                                                                                           -SEL0+7
                                                   10053
```

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CVDMECO DMV11 LINE UNIT DIAG3
                                 MACY11 30A(1052) 12-JUL-84 11:12 PAGE 128
                                          TEST 2 -- INTEGRAL MODEM INTERFACE TEST
              12-JUL-84 10:56
CVDMEC.P11
                                          :0054
                                                 0200
  5306
                                          10055
                                                 0200
  5307
                                          :0056
                                                 0200
  5308
                                          10057 0200
                                                                     IVERSATILE INTERFACE ADAPTER REGISTER EQUATES
  5309
                                                                    OREGB - $A000
                                          10058
                                                                                                              JOUTPUT REGISTER B
  5310
                                                                                                     OUTPUT REGISTER A
                                                                    OREGA - OREGB+1
                                          10059 0200
  5311
                                          10060 0200
                                                                    DDRB
                                                                           - OREGB+2
                                                                                                     DATA DIRECTION REGISTER B
  5312
                                          10061 0200
                                                                    DDRA
                                                                           - OREGB+3
                                                                                                     DATA DIRECTION REGISTER A
  5313
                                          :0062
                                                                    T1LL
                                                                            - OREGB+6
                                                                                                     TIMER 1 LATCH LOW BITS
  5314
                                          :0063
                                                0200
                                                                    T1LH
                                                                           - OREGB+7
                                                                                                     ITIMER 1 LATCH HIGH BITS
  5315
                                                                                                     :AUXILIARY CONTROL REGISTER :PERIPHERAL CONTROL REGISTER
                                          10064
                                                                    ACR
                                                                           - OREG8+#8
  5316
                                          :0065
:0066
                                                                    PCR
                                                                           - OREGB+#C
  5317
                                                 0200
  5318
                                          :0067
                                                 0200
  5319
                                          :0068
                                                 0200
  5320
  5321
                                          10069 0200
                                                                     :VIA OUTPUT REGISTER B BIT EQUATES
  5322
                                          10070 0200
                                                                    NULCLK - BIT7
  5323
                                          :0071 0200
                                                                    RXEN - BIT6
                                                                          - BITS
  5324
                                          10072 0200
                                                                    TXEN
  5325
5326
                                          :0073 0200
                                                                    DTR
                                                                           - BIT4
                                          10074 0200
                                                                    RTSND - BIT3
  5327
                                          10075 0200
                                                                    HDX
                                                                           - BIT2
  5328
                                                                    TTLOOP - BIT1
                                          :0076
                                                 0200
  5329
                                          10077
                                                 0200
                                                                    PRESET - BITO
  5330
                                          :0078
                                                 0200
                                          ;0079 0200
;0080 0200
;0081 0200
  5331
  5332
                                                                     IVIA OUTPUT REGISTER A BIT EQUATES
  5333
  5334
                                          10082 0200
                                                                    RING - BIT7
  5335
                                          10083 0200
                                                                    CARIER - BIT6
  5336
                                          :0084 0200
                                                                    MOHROY - BITS
  5337
                                          10085 0200
                                                                    BORATE - BIT4
  5338
                                          10086
                                                0200
                                                                    CTS - BIT3
  5339
                                          10087 0200
                                                                           - BIT2
                                          10088 0200
  5340
                                                                    RCVDAT - BIT1
  5341
                                          :0089
                                                0200
                                                                    UMAINT - BITO
  5342
                                          :0090
                                                 0200
  5343
                                          :0091
                                                 0200
                                                                     JUSYRT REGISTER ADDRESS EQUATES
  5344
                                                 0200
                                          10092
  5345
                                          10093
                                                                    RXDB
                                                                          - $A100
  5346
5347
                                          10094
                                                                           - RXD8+1
                                                                    RDSR
                                                                    TXDB
                                                                           - RXD8+2
  5348
                                                                    TDSR
                                                                           - RXD8+3
                                          10096
                                                 0200
  5349
                                                                            - RXD8+4
                                                                    SAR
                                          10097 0200
  5350
                                                                    PCSAR - RXDB+5
                                          10098
                                                 0200
  5351
                                          10099
                                                 0200
                                                                    PCTLR - RXDB+7
  5352
                                          :0100
                                                0200
  5353
                                          :0101
                                                 0200
  5354
                                                 0200
                                          :0102
  5355
                                                                     JUSYRT TOSK REGISTER BIT EQUATES
                                          :0103
                                                 0200
                                                 0200
  5356
                                          :0104
                                                                    TEOM - BIT1
  5357
                                          :0105
                                                 0200
                                                                    TSOM
                                                                           - BITG
  5358
                                          :0106
                                                 0200
  5359
                                          :0107
                                                 0200
  5360
                                          :0108
                                                 0200
  5361
                                                 0200
                                          10109
                                                                     JUSYRT ROSR BIT EQUATES
```

VDMECO		LINE UNIT	DIAG3	MACY11			L-84 11:	12 PAGE			SEQ 128
	- 4.4	25-005-04	20.50		;0110	0200		RERR	- BIT7		
5362 5363					:0111	0200					
5364 5365 5366 5367					:0112 :0113 :0114 :0115 :0116 :0117 :0118 :0120 :0121 :0122 :0123 :0124 :0125 :0126 :0127 :0126 :0129 :0130	0200					
5366					0114	0200		USYRT	STATUS	REGISTER E	QUATES
5367					:0115	0200			- \$A400		
5368					10116	0500		RDA TBMT	- BIT7		
5368 5369 5370 5371 5372 5373 5374 5375					10118	0200		RXACT	- BITS		
5371					10119	0200		RSA TSO	- BIT4 - BIT3		
5373					10121	0500		TXACT	- BIT2		
5374					:0122	0500 050C		TXUERR	- BIT1		
5375 5376					:0123	0500		SYNFLG	- BITO		
5377					10125	0500 0500 0500 0500					
5378					10126	0200					
5379					:0127	0500			= 8226	S EQUATES	
5381					10129	0500		STIE	- 6520		
5382					:0130	0200					
5383	025410	240	000		:0131	O200 AO	240,000		LDY	00	
5385	05347	240	000		:0132	0202 84	16		STY	BSEL6	:CLEAR BSEL6
5386	025412	204	026			BYTE	204,026		CTV	DCC1 7	CI 540, 0051 7
5380 5381 5382 5383 5384 5385 5386 5387 5388 5389 5390	025414	204	027		;0133	0204 84 .BYTE	17 204,027		STY	BSEL7	CLEAR BSEL7
5389					:0134	0206		; TURN		USYRT, CLOC	
5390	025414	242	140		;0135	0206 A2			LDX	OTXEN!RXEN	ASSERT TXEN,RXEN,RTS,DTR
5391 5392	025416	242	140		:0136	.BYTE	242,140 00 A0		STX	OREGB	: AND RELEASE INT MODEM RESET
5392 5393	025420	216	000	240		.BYTE	216,000.	240			
5394 5395	025423	242	000		:0137	O208 A2	242,000		LDX	00	INIT THAT TIME-OUT COUNTER
5396	VESTE.	245	000		:0138	0500 50	00 A4		BIT	USTATR	SEE IF TBMT SET
5396 5397 5398 5399 5400 5401 5402 5403 5404 5405 5406 5407 5408 5409 5410	025425	054	000	244		.BYTE	054,000,	244	DVC		DO TE TOUT CET
5399	025430	160	010		;0139	0210 70 BYTE	160,010		BVS	**10	BR IF TBMT SET
5400			020		:0140	0212 E8			INX		:INCREMENT TIME-OUT COUNTER
5401	02543	350			.0141	BYTE			DATE		OD TE NO TIME OUT
5403	025433	320	370		;0141	.BYTE			BNE	*-6	BR IF NO TIME-OUT
5404					;0142	0215		; ***	ERROR	1 ***	
5405	005476				:0143	0215 A0	01		LDY	01	SET CODE FOR TBMT TIME-OUT ERRO
5407	025435	240	001		:0144		240,001		JPP	A100	GO TAKE ERROR EXIT
5408	025437	114	220	003	10241	BYTE	114,220,	003			
5409					:0145	021A	~	:LOAD			INTO TRANSMITTER
5411	025442	242	226		;0146	OZIA AZ	242,226		LDX	#SYNCH	LOAD FIRST SYNCH CHAR
5412			220		:0147	021C 8E	02 A1		STX	TXDB	
5413 5414	025444	216	002	241		.BYTE	216,002,	241	104	••	THAT TOWN TIME OUT COUNTED
5415	025447	242	000		;0148	O21F A2			LDX	00	INIT THAT TIME-OUT COUNTER
5416					:0149	0221 20	00 A4		BIT	USTATR	SEE IF TOMT SET
5417	02545	054	000	244		.BYTE	054,000,	244			

			MARY 1	200/105			CE 430		SEQ 129
	12-JUL-84	10:56	MACTIL						
				;0150			BVS	**10	BR IF TBMT SET
025454	160	010		:0151	0226 E8	160,010	INX		:INCREMENT TIME-OUT COUNTER
025456	350			.0152		350 F8	RNE	4-6	BR IF NO TIME-OUT
025457	320	370			.BYTE	320,370			10K 2F NO 12FE-001
				:0154	0229 AO	02	LDY	62	SET CODE FOR TBMT TIME-OUT ER
025461	240	002		:0155		240,002 90 03	JHP	A100	GO TAKE ERROR EXIT
025463	114	220	003		.BYTE	114,220,003			
				:0157	055E V5	96	LDX	#SYNCH	LOAD SECOND SYNCH CHAR
				;0158	0230 BE	02 A1	STX	TXDB	
025470	216	002	241	:0159			LDX	•0	INIT THE TIME OUT COUNTER
025473	242	000			.BYTE	242,000	RIT	USTATR	SEE IF TONT SET
025475	054	000	244	19.00	.BYTE	054,000,244			BR IF THAT SET
025500	160	010			.BYTE	160,010		**10	
025502	350			;0162	.BYTE	350	INX		INCREMENT TIME-OUT COUNTER
025503	320	370		;0163			BNE	•-6	BR IF NO TIME-OUT
				:0164	0230	; **			SET CODE FOR THAT TIME-OUT ER
025505	240	003			.BYTE	240,003			GO TAKE ERROR EXIT
025507	114	220	003		.BYTE	114,220,003			100 LINE ENVIN EXT.
				:0167	0242 2C	01 A0	BIT	OREGA	SEE IF CARRIER SET YET
025512	054	001	240	:0169	.BYTE	054,001,240 05	BVS	••7	BR IF CARRIER SET
025515	160	005			.BYTE	160,005			
				0171	0247 AO	04	LDY	44	SET CODE FOR CARRIER NOT SET
				;0172	0249 4C	90 03	JIP	A100	GO TAKE ERROR EXIT
025521	114	220	003	:0173		114,220,003 ;LOA	D TRANSH	TTER WITH OOD C	HAR
025524	242	000		:0174	024C A2	00	LDX	0000	CLEAR TSOM
			241	:0175	024E 8E	03 A1	STX	TDSR	
				:0176	0251 BE	02 A1	STX	TXDB	:LOAD OOO CHAR
			241		0254 A2	00	LDX	40	INIT THE TIME-OUT COUNTER
025534	242	000		:0178			BIT	USTATR	SEE IF TOMT SET
025536	054	000	244		BYTE	054,000,244			BR IF TBMT SET
025541	160	010			BYTE	160,010			INCREMENT TIME-OUT COUNTER
025543	350			10190	BYTE	350	THY		THENETIEN ITHE-OUT COOMIEN
	P11 025454 025456 025457 025461 025466 025470 025473 025475 025500 025502 025503 025503 025505 025507 025512 025515 025517 025521 025524 025526 025531 025534 025536	P11 12-JUL-84 025454 160 025456 350 025457 320 025461 240 025463 114 025466 242 025470 216 025473 242 025475 054 025500 160 025502 350 025503 320 025503 320 025505 240 025507 114 025512 054 025515 160 025517 240 025517 240 025521 114 025524 242 025526 216 025531 216 025534 242 025536 054 025536 054	025454 160 010 025456 350 370 025457 320 370 025461 240 002 025463 114 220 025466 242 226 025470 216 002 025473 242 000 025475 054 000 025502 350 370 025503 320 370 025505 240 003 025507 114 220 025512 054 001 025515 160 005 025517 240 004 025521 114 220 025524 242 000 025525 216 003 025531 216 003 025534 242 000 025536 054 000 025541 160 010	P11 12-JUL-84 10:56 025454 160 010 025456 350 025457 320 370 025461 240 002 025463 114 220 003 025466 242 226 226 025473 242 000 244 025475 054 000 244 025502 350 010 02 025503 320 370 02 025505 240 003 03 025507 114 220 003 025512 054 001 240 025515 160 005 005 025517 240 004 005 025521 114 220 003 025524 242 000 003 025531 216 003 241 025534 242 000 004 025536 054 000 244 025541 160 010 00	P11 12-JUL-84 10:56 TEST 2 025454 160 010 ;0150 025456 350 ;0151 ;0152 025457 320 370 ;0153 025461 240 002 ;0154 025463 114 220 003 ;0156 025466 242 226 ;0158 ;0159 025473 242 000 ;0160 ;0160 025475 054 000 244 ;0161 025502 350 ;0163 ;0162 025503 320 370 ;0163 025505 240 003 ;0163 025507 114 220 003 ;0166 025512 054 001 240 ;0169 025517 240 004 ;0170 ;0171 025521 114 220 003 ;0173 025524 242 000 ;0175 025	P11 12-JUL-84 10:56	P11 12-JUL-84 10:56	P11 12-JUL-84 10:56	12-Jul-84 10:56

CADHECO	DHV11	LINE UNIT	DIAG3	MACY11	30A(105			E 131		324 130
CVDMEC.		12-JUL-84	10:56		TEST 2	INTEG	RAL MODEM INTERF	ACE TEST		
5474	025544	320	370		;0181	025C DO	F8 320,370	BNE	*-6	BR IF NO TIME-OUT
5475 5476	025544	320	310		:0182	025E	; ***	ERROR		
5477					:0183	025E A0		LDY	45	SET CODE FOR TOMT TIME-OUT ERR
5478	025546	240	005		-0104	.BYTE 0260 4C	240,005	JHP	A100	GO TAKE ERROR EXIT
5479	025550	114	220	003	;0184	BYTE	114,220,003	OI W	HIOO	100 TARE ERROR EAST
5480 5481	053330	114	250	000	;0165	0263	;LOAD	TRANSMI	TTER WITH 125	CHAR
5482					:0186	0263 A2		LDX	48125	:LOAD 125 CHAR
5483	025553	242	125		-0187	.BYTE	242,125 02 A1	STX	TXDB	
5484	025555	216	002	241	;0187	BYTE	216,002,241	317	1,00	
5486	VE 333.		•		;0188	0268 A2	00	LDX	00	INIT THE TIME-OUT COUNTER
5482 5483 5484 5485 5486 5487	025560	242	000		****	BYTE	242,000	BIT	USTATR	:SEE IF TOMT SET
5488	025562	054	000	244	;0189	026A 2C	00 A4 054,000,244	911	USINIK	ISEC IF IONI SET
5488 5489 5490 5491	023302	. 034	000		;0190	0260 70	08	BVS	*+10	BR IF TBMT SET
5491	025565	160	010			BYTE		PAIN		:INCREMENT TIME-OUT COUNTER
5492	00000	750			:0191	026F E8	350	INX		STUCKELENI ITHE-OOL SOOMIEK
5493 5494	025567	350			:0192	0270 DO		BNE	*-6	:BR IF NO TIME-OUT
5495	025570	320	370			.BYTE	320,370			
5496					:0193				6 ***	:SET CODE FOR TBMT TIME-OUT ERR
5497 5498	A2557	240	006		:0194	0272 AO	240,006	LDY	46	SEL COSE LOW ION THE TOTAL
5400	025572	2411	000		:0195		90 03	JMP	A100	GO TAKE ERROR EXIT
5500	025574	114	220	003		.BYTE	114,220,003			CHAD
5500 5501 5502 5503 5504 5505 5506 5507					:0196	0277 0277 A2		LDX	TTER WITH 252	:LOAD 252 CHAR
5503	025577	242	252		10731	BYTE	242,252	LUA	VOCOC	TEORE ESE GIVE
5504	063311				;0196	0279 BE	02 A1	STX	TXDB	
5505	025601	216	002	241		BYTE	216,002,241	LDX	00	:INIT TBMT TIME-OUT COUNTER
5506	025604	242	000		;0199	027C A2	242,000	LUA	***	INTI INII IZIE-OUI COMITEM
5508	08.300	242	-		:0200	027E 2C	00 A4	BIT	USTATR	SEE IF TBMT SET
5509	025600	054	000	244		.BYTE	054,000,244	DVC	4.10	BR IF TOMT SET
5510	02561	160	010		;0201	0281 70 .BYTE	160.010	BVS	**10	; DK IF IBNI SEI
5512	025611	160	010		:0202			INX		; INCREMENT TIME-OUT COUNTER
5513	025613	350				.BYTE	350	-		DO TE NO TIME OUT
5514	005/1/	700	770		;0203	0284 DO	320,370	BNE	*-6	BR IF NO TIME-OUT
5516	025614	320	370		;0204	0286	1 444	ERROR	7 ***	
5517					;0205	0286 A0	07	LDY	●7	SET CODE FOR TBMT TIME-OUT ERR
5518	025616	240	007		000/	BYTE	240,007	man .	A100	GO TAKE ERROR EXIT
5519	025620	114	220	003	:0206	0288 40 .BYTE	114,220,003	JHP	WIOO	100 THE ENNON EXT.
5521	023020	, 114	220	003	:0207		LOAD	TRANSMI	TTER WITH 377	CHAR AND END OF MESSAGE
5522					10208	0288 A2		LDX	00377	:LOAD 377 CHAR
5523	025623	242	377		.0200	.BYTE	242,377 02 A1	STX	TXDB	
5525	025625	216	002	241	;0209	O28D SE	216,002,241	314	1 100	
5526	VE 302.	210			;0210	0290 A2	00	LDX	00	INIT THAT TIME-OUT COUNTER
5510 5511 5512 5513 5514 5515 5516 5517 5518 5519 5520 5521 5522 5523 5524 5525 5526 5527 5528	02563	242	000	4		BYTE	242,000	DTT	USTATR	SEE IF TBMT SET
5528	02567	054	000	244	;0211	.BYTE	00 A4 054,000,244	BIT	VSINIK	THE AT ION SET
2254	02563	2 054	000	244		.0116	037,000,644			

CVDPECO.		LINE UNIT	DIAG3 10:56	HACY11	30A(1052 TEST 2		L-84 11:12 RAL HODEN IN		LE TEST		3E4 131
5530 5531					10212		08		BVS	••10	IBR IF TOMT SET
5531 5532	025635		010		10213	.8YTE 0297 E8	160,010		INX	3	INCREMENT TIME-OUT COUNTER
5532 5533 5534 5535 5536 5537 5538 5539 5540 5541 5542 5543 5544 5545 5546 5547 5546 5549 5550 5551 5552 5553 5554 5555 5556 5557 5556 5557 5556 5559 5560 5561 5562 5563	025637				10214		350 F8		BNE	•-6	BR IF NO TIME-OUT
5535 5536	025640	320	370		10215	BYTE 029A	320,370	•••	ERROR	8 ***	
5537	025642	240	010		10216	BYTE	06 240,010		LDY	46	SET CODE FOR TONT TIME-OUT ERRO
5539	025644		220	003	10217		90 03		JPP	A100	1GO TAKE ERROR EXIT
5541	023044	114	220	003		029F		LOAD		TTER WITH OOD (
5542 5543	025647	242	000			.BYTE	242,000		LDX	6000	;LOAD OOO CHAR
5544 5545	025651	216	002	241		.BYTE	02 A1 216,002,241		STX	TXDB	
5546 5547	025654		000		:0221	OZA4 A2	242,000		LDX	•0	INIT ROA TIME-OUT COUNTER
5548	025656		000	244	10555		00 A4 054,000,244		BIT	USTATR	ISEE IF ROA SET
5550				-	10223	02A9 30	08		BMI	••10	IBR IF ROA SET
5552	025661		010		10224	.BYTE			INX		INCREMENT TIME-OUT COUNTER
5553 5554	025663				10225	OSAC DO			BNE	•-6	IBR IF NO TIME-OUT
5555 5556	025664	320	370		10226	.BYTE	320,370	•••	ERROR	9 ***	
5557 5558	025666	240	011		10227	BYTE AO	09 240,011		LDY	69	SET CODE FOR ROA TIME-OUT ERROR
5559	025670		220	003		0280 4C			JPP	A100	IGO TAKE ERROR EXIT
5561	023670	114	220	003	10559	0283		READ		CK 000 CHAR	READ RECEIVER BUFFER
	025673	255	000	241		.BYTE	00 A1 255,000,241	1	LDA	RXDB	
5564 5565	025676	311	000			.BYTE	311,000		CHP	•8000	ICHK FOR 000
5566 5567	025700		005		10232	0288 FO	05 360,005		BEQ	••7	18R IF 000
5568					10233	028A		•••	ERROR	10 ***	ISET CODE FOR DATA MISCOMPARE ER
5570	025702	240	012		H 1	.BYTE	240,012 90 03		JIP	A100	GO TAKE ERROR EXIT
5572	025704	114	220	003		.BYTE	114,220,003	3			INIT ROA TIME-OUT COUNTER
5574	025707	242	000			.BYTE	242,000		LDX	00	
5576	025711	054	000	244		.BYTE	00 A4 054,000,244		BIT	USTATR	ISEE IF ROA SET
5577 5578	025714	060	010		10528	02C4 30 .BYTE	060,010		BMI	••10	IBR IF ROA SET
5579 5580	025716				10239	OZCE ES			INX		INCREMENT TIME-OUT COUNTER
5561 5562	025717		370		10240	O2C7 DO			BNE	•-6	IBR IF NO TIME-OUT
5565 5566 5567 5568 5569 5570 5571 5572 5573 5574 5575 5576 5577 5576 5577 5578 5579 5580 5581 5582 5583 5584	023111	320	3.0		10241	02C9 A0		•••		11 ***	ISET CODE FOR RDA TIME-OUT ERROR
5585	025721	240	013		10242	.BYTE	240,013		LDY	***	JUST CODE FOR HOM TARE-OUT CHILDR

CADHEC .	DMV11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052)		RAL MODEM IN		ACE TEST		
5586 5587			220	003			90 03		JPP	A100	GO TAKE ERROR EXIT
5587 5588	025723		220	003		SCE VS		3	LDX	PTEOM	SET TEOM TO TERMINATE MSG
5589 5590	025726		002				03 A1		STX	TDSR	
5591 5592	025730	516	003	241	10246	.BYTE				CK 125 CHAR	
5593 5594	025733	255	000	241		.BYTE	255,000,24	1	LDA	RXDB	READ RECEIVER BUFFER
5595 5596	025736	311	125			.BYTE	311,125		CHP	49125	CHK FOR 125
5597 5598	025740	360	005			.BYTE	360,005		BEQ	••7	18R IF 125
5588 5589 5590 5591 5592 5593 5594 5595 5596 5597 5598 5599 5600 5601 5602 5603 5604 5605 5606 5607 5606 5607 5608						ACSC ACSC	OC		ERROR	12 *** #12	ISET CODE FOR DATA MISCOMPARE ER
5601 5602	025742		014			20C 4C	240,014 90 03		JHP	A100	GO TAKE ERROR EXIT
5603 5604	025744		220	003		.BYTE	114,220,003	3	LDX	00	INIT ADA TIME-OUT COUNTER
5605 5606	025747	242	000			.BYTE	242,000 00 A4		BIT	USTATR	SEE IF ROA SET
5607 5608	025751	054	000	244		.BYTE		•	BMI	++10	IBR IF ROA SET
5609 5610	025754	060	010		10256	.BYTE			INX		INCREMENT TIME-OUT COUNTER
5611 5612	025756				:0257	.BYTE			BNE	0-6	BR IF NO TIME-OUT
5614	025757	320	370			.BYTE	320,370		ERROR	13 ***	
5615 5616	025761	240	015		10259	.BYTE	240,015		LDY	013	ISET CODE FOR ROA TIME-OUT ERROR
5617 5618	925763	114	220	003		SYTE	114,220,003	3	JHP	A100	GO TAKE ERROR EXIT
5619 5620					10565	SEE VO	00 A1		AND CHE	CK 252 CHAR RXD8	READ RECEIVER BUFFER
5621 5622	025766		000	241		.BYTE	255,000,243	1	CHP	46252	CHK FOR 252
5623 5624	025771		252		10264	.BYTE			BEQ	••7	IBR IF 252
5625 5626	025773	360	005		10265	.BYTE	360,005			14	
5627 5628	025775	240	016			SYTE	240,016		LDY	014	SET CODE FOR DATA MISCOMPARE ER
5629 5630	025777	114	220	003		.BYTE	90 03	3	JIP	A100	GO TAKE ERROR EXIT
5631 5632	026002	242	000			SFA A2	242,000		LDX	**	INIT ROA TIME-OUT COUNTER
5633 5634	026004	054	000	244		.BYTE	00 44	4	BIT	USTATR	SEE IF ROA SET
5635 5636	026007	060	010			SYTE	060,010		BHI	••10	IBR IF RDA SET
5637 5638	026011					.BYTE	350		INX		INCREMENT TIME-OUT COUNTER
5639	026012		370			SO2 DO	F8 320,370		BNE	4-6	IBR IF NO TIME-OUT
5641					10273	304			ERROR	15 ***	

CVDMEC.P	11	LINE UNIT 12-JUL-84	10:56	100122	30A(105		L-84 11:12 PAG RAL MODEM INTERF	ACE TEST		
5642		240	017		10274	0304 AO		LDY	015	SET CODE FOR RDA TIME-OUT ERROR
	026014		017		10275	0306 4C	90 03	JHP	A100	GO TAKE ERROR EXIT
5645	026016	114	220	003	.0074	SYTE	114,220,003	-	CV 377 CHAD	
3644 3645 3646 3647 3648 3649 3650 3651 3652 3653 3654 3655 3656 3657 3660 3661 3662 3663 3664 3665 3667 3668 3667 3668					10276	0309 AD	00 A1	LDA CHE	CK 377 CHAR RXDB	READ RECEIVER BUFFER
5648 5649	026021	255	000	241	:0278	OSOC C9		CHP	46377	ICHK FOR 377
5650	026024	311	377		:0279	OSOE FO	311,377 05	BEQ	••7	1BR IF 377
5652	026026	360	005			.BYTE	360,005	50000		
5653 5654					:0280	0310 A0	10	ERROR	16 ••• •16	SET CODE FOR DATA HISCOMPARE ER
5655	026030	240	020		10282	.BYTE		JPP	A100	IGO TAKE ERROR EXIT
5657	026032	114	220	003	10505	.BYTE	114,220,003			
5658	026035	242	000		10583	OSIS AZ	00 242,000	LDX	•0	; INIT ROA TIME-OUT COUNTER
5660			000	244	10284		00 A4	BIT	USTATR	SEE IF ROA SET
5662	026037			244	10265	031A 30	06	IMB	**10	IBR IF ROA SET
5663 5664	026042		010		10286	.BYTE		INX		INCREMENT TIME-OUT COUNTER
5665 5666	026044	350			10267	.BYTE	350 F8	BNE	•-6	BR IF NO TIME-OUT
5667	026045	320	370			.BYTE	320,370	ERROR	17 •••	
5669					10588	031F A0	11	LDY	917	ISET CODE FOR ROA TIME-OUT ERROR
5670	026047		021		10290		90 03	JPP	A100	GO TAKE ERROR EXIT
5672 5673	026051	114	220	003	.0201	.BYTE	114,220,003 IREAD	AND CHE	CK 000 CHAR	
5674					10291	0324 AD	00 A1		RXDB	READ RECEIVER BUFFER
5675 5676	026054	255	000	241	10293	0327 C9	255,000,241	CHP	#8000	CHK FOR 000
5677	026057	311	000			.BYTE	311,000		••7	1BR IF 000
5678 5679	026061	360	005		:0294	.8YTE	360,005	BEQ		18K 17 000
5680 5681					10295	0328 A0	12 ; ***	LDY	18 ••• •18	SET CODE FOR DATA MISCOMPARE ER
5682	026063	240	022		10297	.8YTE	240,022	JMP	A100	GO TAKE ERROR EXIT
5684	026065	114	220	003		.BYTE	114,220,003			
5686	026070	256	001	241	10298	.BYTE	256,001,241	LDX	RDSR	CHECK FOR RERR BIT SET
5687	026073	060	005		10299	0333 30 .BYTE	05 060,005	BMI	••7	IBR IF RERR BIT SET (NO CRC ERRO
5689	020013	000	003		;0300	0335	; ***		19 ***	
5691	026075	240	023		;0301	.BYTE	240,023	LDY	019	
5692	026077		220	003	:0302	0337 40	90 03	JMP .	A100	IGO TAKE ERROR EXIT
5694				303	;0303	033A A2	00	LDX	00	INIT ROA TIME-OUT COUNTER
	026102		000		10304	OSSC 20		BIT	USTATR	SEE IF ROA SET
	026104	054	000	244		BYTE	054,000,244			

CVDMECO.		LINE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 2		L-84 11:12 RAL MODEM IN		135 NCE TEST		SEG 154
5698		~~			10305	033F_30	08 060,010		BMI	**10	IBR IF ROA SET
5699 5700	026107		010		:0306	0341 E8			INX		INCREMENT TIME-OUT COUNTER
5701 5702	026111				:0307	.8YTE			BNE	•-6	BR IF NO TIME-OUT
5703 5704	026112	320	370		10308	.BYTE 0344	320,370	***		20 ***	
5705 5706	026114	240	024			.BYTE	240,024		LDY	020	SET CODE FOR RDA TIME-OUT ERROR
5707 5708	026116		220	003	;0310	0346 4C	90 03 114,220,003	3	JHP	A100	GO TAKE ERROR EXIT
5709 5710					:0311	0349 0349 AD			AND CHE	CK FIRST CRC CHA	R (160) READ RECEIVER BUFFER
5711	026121	255	000	241		.BYTE 034C C9	255,000,241		CHP	40 160	:CHK FOR 160
5712 5713	026124	311	160			.BYTE	311,160		BEQ	*•7	:BR IF 160
5714 5715 5716	026126	360	005			.BYTE	360,005	***		21 ***	
5717	026130	240	025			0350 AO			LDY	0 21	ISET CODE FOR DATA MISCOMPARE ER
5719			220	003	:0317	0352 4C			JPP	A100	GO TAKE ERROR EXIT
5721	026132		000	003	:0318	0355 A2			LDX	00	INIT ROA TIME-OUT COUNTER
5723	026135			244	;0319	0357 2C	00 A4		BIT	USTATR	;SEE IF ROA SET
5725	026137		000	244	;0320	OSSA 30			BMI	**10	IBR IF ROA SET
5717 5718 5719 5720 5721 5722 5723 5724 5725 5726 5727 5726	026142		010		;0321	OSSC E8			INX		INCREMENT TIME-OUT COUNTER
5729	026144				;0322	.8YTE			BNE	4-6	BR IF NO TIME-OUT
5730 5731	026145	320	370		:0323	.BYTE 035F 035F A0	320,370	***	ERROR	22 ***	CET COOK FOR DOA TIME OUT EDGOD
5732 5733	026147	240	026			.BYTE	240,026		LDY	022	SET CODE FOR RDA TIME-OUT ERROR
5734 5735	026151	114	220	003		0361 4C	114,220,003		JPP	A100	GO TAKE ERROR EXIT
5736 5737 5738					:0327		00 A1		LDA CHE	CK 2ND CRC CHAR RXDB	READ RECEIVER BUFFER
5739	026154		000	241		.BYTE 0367 C9	10		CHP	#8 034	CHK FOR 034
5740 5741	026157		034		10329	.BYTE 0369 FO	311,034 05		BEQ	••7	;BR IF 034
5742 5743	026161	360	005		;0330	.BYTE 0368 0368 A0	360,005	***		23 ***	,
5744 5745	026163	240	027			.BYTE	240,027		LDY	e23	ISET CODE FOR DATA MISCOMPARE ER
5746 5747	026165	114	220	003		0360 4C	114,220,003	3	JHP	A100	GO TAKE ERROR EXIT
5748 5749	026170		000			0370 A2	242,000		LDX	•0	INIT ROA TIME-OUT COUNTER
5750 5751	026172		000	244		0372 2C	00 A4 054,000,244		BIT	USTATR	SEE IF RDA SET
5752 5753	026175		010			0375 30 .BYTE	08 060,010		BHI	••10	ar IF RDA SET
		-									

CVDMEC.	P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(105	2) 12-JU	L-84 11:12 RAL MODEM I	PAG NTERF	E 136 ACE TEST		
5754					10336	0377 E8	***		INX		INCREMENT TIME-OUT COUNTER
5755	026177	350			10337	.8YTE			BNE	4-6	:BR IF NO TIME-OUT
5756 5757 5758 5759 5760 5761 5762 5763 5764 5765	026200	320	370			.BYTE			0.40		10N 21 NO 121E-001
5758					10338	037A		***		24 ***	
5759	026202	240	030		:0339	OSTA AO	240,030		LDY	024	SET CODE FOR RDA TIME-OUT ERROR
5761	VEDEVE	240	030		:0340	037C 4C	90 03		JMP	A100	IGO TAKE ERROR EXIT
5762	026204	114	220	003		.BYTE	114,220,00				
5763					:0341	037F		DROP		ECK FOR CARRIER 1	O DROP
5764	026207	242	150		10342	037F A2	242,150		LDX	ALYEN: KYEN: KI ZW	DE-ASSERT RTS
5766	OEGEVI	545	130		10343	0381 8E	00 A0		STX	OREGB	
5766 5767	026211	216	000	240		.BYTE	216,000,24	0			
5768	****	242	000		:0344	0384 A2			LDX	40	INIT CARRIER DROP TIME-OUT COUN
5770	026214	242	000		:0345	.BYTE			BIT	OREGA	SEE IF CARRIER CLEARED
5771	026216	054	001	240		.BYTE	054,001,24	0		U.CO.	JOEC AF GRANZEN GEETHED
5768 5769 5770 5771 5772 5773 5774 5775					:0346	0389 50	05		BVC	4+7	BR IF CARRIER CLEARED
5773	026221	120	005		:0347	.BYTE	120,005		INX		:INCREMENT TIME-OUT COUNTER
5775	026223	350			10347	BYTE	350		THY		THERENEN ITHE-OUT COUNTER
5776					:0348	038C D0	F8		BNE	*-6	IBR IF NO TIME-OUT
5776 5777 5778	026224	320	370			BYTE			F0000	•	
5779					:0349	038E A0		. ***	ERROR LDY	25 *** *25	SET CODE FOR CARRIER DROP TIME-
5780	026226	240	031		10000	BYTE				463	13E1 CODE FOR CHANGER DROP 12/E-
5780 5781					:0351	0390			HERE FO		
5782	00/070	204	000		;0352	0390 84		100	STY	BSEL6	PUT ERROR NO. (IF ANY) INTO BSE
5783 5784	026230	204	026		:0353	.BYTE			STA	BSEL7	PUT BAD DATA (IF ANY) INTO BSEL
5785	026232	205	027		,0000	BYTE	205,027			0000	TOT OF BATA (2) ANT 2 ATT BOLL
5786					;0354	0394 60			RTS		RETURN CONTROL TO LSI-11 PROGRA
5787 5788	026234	140			.0255	BYTE	140				
5789					;0355 ;0356	0395					
5790					1						
5791					1						
5792 5793					EAROR	5 - 0000					
5794	026235				ENDCOD	:					
5795		026236			.EVEN						

CVDMECO	DHV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(TES	1052) 12-	NL-84 11:12 TEST BCP X	PAGE 137 LB CRC-16		SEQ 136
5796 5797					.SB	TTL TEST	DATA TEST	BCP XLB CRC-16		
5798						********	***********	*********************	********	******
5799 5800						TEST 3	DATA TEST	BCP XLB CRC-16		
5801					14	TF VID 1	c coectetes	THE R TABLE THE TEST HE		
5802 5803 5804						IF XLB I RECEIVE I MESSAGE:	S SPECIFIED IN BCP MODE	IN THE P-TABLE, THIS TEST WI WITH CRC-16 ERROR DETECTION	THE FOLLOWI	NG
5805						126 26	2 000 177 001	002 004 010 020 040 100 200 37	276 272 2	
5806 5807							277 177	002 004 010 020 040 100 200 37	313 313 3	6/
5808										
5809								PRECEDED BY 3 SYNC CHARACTERS FOLLOWING EACH ONE. THE LAST TR		
5810 5811						THE CRC	WILL BE FOLLOW	ED BY SEVERAL SYNC CHARACTERS B	EFORE DROPP	ING
5812								ER LENGTHS ARE ALSO UTILIZED.		
5813 5814						TE VI 8 MAS	MOT SPECIFIED	(AND/OR BOARD TYPE IS M8064).	-	AV DE DIN
5815							RNAL LOOPBACK		mas resi n	AT DE NOR
5816					10					
5817 5818					1	*********	***********	***************************************	********	*******
5819					:	BGNTS1				
5820	026236			******		*****	42 0000	T3:		
5821 5822 5823 5824 5825 5826 5826	026236	012737	000003 005376	002526		MOV JSR	#3,REGO PC,INIDHV	INIT COUNT (TEXT TRANSMITT		
5823	026250	042737	001000	026326		BIC	MOLOOP,18			
5824	026256	012737	000011	027100		MOV	49.,34	**INIT ENTRAN COUNT/TTLOOP	STATUS	
5825	026264	023727	002470	000000		CHP	BRDTYP, 40	IS THIS AN MOOGA? YES: USE TTLOOP (NOT XLB)		
5827	026274	023727	002472	000004		CHP	TSTCON, 44	IS A LOOPBACK CONNECTOR/CA		ED ?
5828 5829	026302	001406		00/70/		BEQ	28	BR IF NO		
5830	026304	052737 052737	100000	026326 027100		BIS	#NOLOOP,1#	: YES: SPECIFY NO TTLOOP (I	MITHIN)	01.000)
5831			20000	021200	1					-
5832	026320 026324 026326 026332 026332	004537	007234		24:	JSR	RS, INITRN	LOAD 1 SOM, CLK TX UNTIL A	CTIVE	CVNCU-336
5834	026324	065626			18:		21MTh2:TOFE2:C	RC16!SYNCH :SET DOCHP, STRIP, ID :USE 8 BIT CHARS	LE, CMC-10.	31MLH=220
5835	026330	103003			•••	BCC	8.	;BR IF NO ERROR		
5836	026332					ERROR		REPORT STACKED ERROR	7040	CAEDDOD
5636	026332	104460				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C‡ERROR
5839	UC0334	104410				230.4		toral to the drives	TRAP	CIESCAPE
5840	026336	000554							. WORD	L10022
5842	026340	004537	010136			JSR	R5.TXCHAR	:LOAD 2ND SYNCH, TX 1ST SYN	CH	
5843	026344	000226	010130			SYNCH	No, I North	12010 210 011011, 14 201 311		
5844	026346	000007				7.		00 TE NO COOO		
5845	026350	103003				BCC ERROR	. • 8.	BR IF NO ERROR REPORT STACKED ERROR		
5830 5831 5832 5833 5834 5835 5836 5837 5838 5839 5840 5841 5842 5843 5844 5845 5846 5847 5846	026352 026352	104460						INCLUMITED ENHAN	TRAP	C\$ERROR
5848	026354					ESCAPE	TST	SKIP TO END OF TEST	7040	04500405
5849 5850	026354 026356	104410							TRAP . WORD	C\$ESCAPE L10022
		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TWO IN COLUMN TW							· HOND	PAVVEE .

VOMEC.	DHV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11 30A(1052) 12-J TEST 3 DATA	TEST BCP	PAGE 138 XLB CRC-16		SEQ 13
5852 5853	026360 026364	000226	010136	JSR SYNCH	R5,TXCHAR	LOAD SRD SYNCH, TX 2ND SYNCH		
5852 5853 5854 5855 5856 5857 5858 5859	026366 026370 026372	103003		BCC ERROR	8 .	BR IF NO ERROR REPORT STACKED ERROR		
5857 5858	026372	104460		ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
5859 5860	026374 026376						TRAP . WORD	CIESCAPE L10022
5860 5861 5862 5863 5864 5865 5866 5867 5868 5869 5870 5871 5872 5873	026400	004537	010250	JSR 000	R5,TXCTRL	CLEAR TSOM		
5864 5865	026406	000000		0				
5866 5867	026410 026414	004537 000125	010136	JSR 125	R5,TXCHAR	;LOAD 125(DATA1), TX 3RD SYNCH		
5869 5870	026414 026416 026420 026422 026424 026424	103003		8. BCC ERROR	.+8.	BR IF NO ERROR		
5871 5872	026422 026424	104460		ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
	026424 026426	104410 000464					TRAP . WORD	CIESCAPE L10022
5876 5877	026430 026434	004537 000252	010136	JSR 252	R5.TXCHAR	;LOAD 252(DATA2), TX 125(DATA1)		
5874 5875 5876 5877 5878 5879 5880 5881 5882 5883	026436 026440 026442 026444 026444	000010 103003		8. BCC ERROR	.+8.	BR IF NO ERROR		
5881 5882	026442	104460		ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
5883 5884 5885	026444 026446	104410					TRAP . WORD	CIESCAPE L10022
5886	026450 026454	000000	010136	JSR 000	R5.TXCHAR	¿LOAD 000(DATA3), TX 252(DATA2)		
5888 5899 5890	026456 026460 026462	000010 103003		8. BCC ERROR	.+8.	BR IF NO ERROR		
5891 5892	026460 026462 026464 026464	104460		ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
5894 5895	026466	104410 000424					TRAP . WORD	C#ESCAPE L10022
5896 5897	026470 026474	000377	010136	JSR 377	RS, TXCHAR	:LOAD 377(DATA4), TX 000(DATA3)		
5887 5888 5899 5890 5891 5892 5893 5894 5895 5896 5897 5898 5899 5900 5901 5902 5903 5904 5905 5906	036476 026500 026502	103003		8. BCC ERROR	8.	BR IF NO ERROR REPORT STACKED ERROR		
5901 5902	026502 026504	104460		ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
5903 5904	026504 026506						TRAP . WORD	C\$ESCAPE
5905 5906 5907	026510 026514		010136	JSR 001	R5.TXCHAR	;LOAD 001(DATA5)		

VDMECO		LINE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 3	2) 12-JU	L-84 11:12 PA TEST BCP XLB	GE 139 CRC-16		SEQ 138
5908	026516					0		00 75 40 5000		
5000	026520					BCC	. +8.	BR IF NO ERROR		
5910 5911 5912 5913 5914 5915	026522					ERROR		REPORT STACKED ERROR	TRAP	C#ERROR
5911	026522	104460				ESCAPE	TST	SKIP TO END OF TEST	TRAP	CAEMMON
5912	026524	104410				ESCAPE	131	ISKEP TO END OF TEST	TRAP	CIESCAPE
2412	026526	000364							, WORD	L10022
5915	VEOJEC	000504								
5916	026530	004537	011624			JSR	R5,RCV1ST	CLOCK AND RCV 125		
5917	026534	000000				0				
5918	026536	103003				BCC	. +8.	BR IF NO ERROR		
5919 5920 5921 5922 5923 5924 5925 5926 5927 5928 5929 5930 5931 5932 5933	026540					ERROR		REPORT STACKED ERROR	7040	C450000
5920	026540	104460				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
5921	026542	104410				ESCAPE	131	ISKT IN END OF IEST	TRAP	CIESCAPE
5922	026542	104410							, WORD	L10022
5924	020344	000346							. work	LIVVEE .
5925	026546	004537	010350			JSR	R5.RXCHAR	IREAD & CHK 125(DATA1), RCV 25	2(DATA2)	
5926	026552	000125				125				
5927	026554	000000				0				
5928	026556 026566 026562	000010				8.				
5929	026560	103003				BCC	. +8.	BR IF NO ERROR		
5930	026562					ERROR		REPORT STACKED ERROR	7040	0450000
5931	056265	104460				FCCARE	707	CHIE TO END OF TEET	TRAP	C#ERROR
5932	026564	****				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ESCAPE
5934	026564	104410							. WORD	L10022
5935	020300	000324								
5935 5936					TRANS	MIT THE	BULK OF DATA OU	IT OF TABLE "PATX"		
5937										
5938	026570		002646			MOV	@PATX+1,R2 (R2)+,20#	SET UP TABLE POINTER		
5939	026574		026632	026612	54:	MOVB	3(R2),10#	SET UP EXPECTED CHARACTER		
5940 5941	026600	116237	000003	026612		HUVE	3(ME),100	1351 OF IMPRISITE CHARACTER		
5942	026606	004537	010136			JSR	R5, TXCHAR	LOAD A CHARACTER		
5943	026612	000000	020200		10#:	000		100 HOLE FOR NEXT TX CHARACTER	1	
5944	026614	000000				0				
5945	026616	103003				BCC	. +8.	BR IF NO ERROR		
5943 5944 5945 £946	026620 026622 026622					ERROR		REPORT STACKED ERROR		0.00000
5947	026620	104460						CVTD TO CVD OF TEST	TRAP	C\$ERROR
5948 5949	026622					ESCAPE	TST	SKIP TO END OF TEST	TRAP	CIESCAPE
2343	026624	104410							. WORD	L10022
5950 5951	026624	000266							. MOND	FIGURE .
5952	026626	004537	010350			JSR	R5.RXCHAR	CLK/RECEIVE/CHECK PREVIOUS CH	ARACTER	
5952 5953	026632	000000	424334		201:	000		100 HOLE FOR EXPECTED CHARACTE	R	
5954	026634	000000				0				
5954 5955	026636	000010				8.				
5956	026640	103003				BCC	. +8.	BR IF NO ERROR		
5957	026642					ERROR		REPORT STACKED ERROR	7040	CAECOCC
5958	026642	104460					***	CHIE TO END OF TEST	TRAP	C‡ERROR
5959	026644					ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ESCAPE
5960	026644	104410							. WORD	L10022
5961	026646	000244							. WOND	C10055
5962 5963	026650	022702	002665			CMP	#PATX+16.,R2	CHECK FOR 20TH CHARACTER OF	ABLE	
3703	V2003A	VEETVE	002003				2			

CVDHECO DHV11	LINE UNIT	DIAG3	MACY11	30A(1052)	12-JUL-84	11:12	PAGE 140
CVONEC.P11				TEST 3	DATA TEST	BCP	XLB CRC-16

5964	026654	001347		BNE	5#	BR IF NOT DONE		
5965			******	1	DE TYOTOL	LOAD ACT TOM		
5966	026656	004537	010250	JSR	NO, IXCINL	LOAD 1ST TEOM		
5967	026662	200000		TEOH				
5967 5968	026664	000000		0				
5060	026666	004537	010350	JSR	R5,RXCHAR	;READ/CHK 357(DATA17), RCV 337	CRIATAG	
5969			010330	757	NO , MAGINA	INCHARGO STORTINGTY, NOT SST	UNINED?	
5970	026672	000357		357				
5971	026674	000000		0				
5972	026676	000010		8.				
5973	026700	103003		BCC	. +8.	BR IF NO ERROR		
5074	026702	200000		ERROR		REPORT STACKED ERROR		
5974				Ennon		INCLOUR STRUCKED ENROR	7040	6450000
5975	026702	104460		500005		AUTO TO THE OF TEAT	TRAP	C#ERROR
5976	026704			ESCAPE	151	SKIP TO END OF TEST		
5977	026704	104410					TRAP	C#ESCAPI
5978	026706	000204					. WORD	L10022-
5070	020100	000501						FIGURE
5979			******	100		1040 MD TEM		
5980	026710	004537	010250	JSR	R5.TXCTRL	;LOAD 2ND TEOM		
5961	026714	000002		TEOM				
5982	026716	000000		0				
5083	026720	004537	010350	JSR	RS RYCHAR	;READ/CHK 337(DATA18), RCV 277	(PIATAD)	
5004	026724	700337	020000	337	115,111,010.			
2704	026724							
2202	026726	CO0000		0				
5986	026730	000010		8.				
5987	026732	103003		BCC	. +8.	BR IF NO ERROR		
5088	026734			ERROR		REPORT STACKED ERROR		
5000	026774	104460		Ennon		INCLOUR STRONES CHION	TRAP	C#ERROR
2202	026734	104460				AVED TO CUD OF TEAT	IRAP	CAEMMON
5990	026736			ESCAPE	TST	SKIP TO END OF TEST		
5991	026736	104410					TRAP	C\$ESCAPE
5992	026740	000152					. WORD	L10022-
5003	020140	400225						
5773	004740	004577	010750	. 100	DE DYCHAD	DEAD (CHE 277/DATA10) DOU 177	COCATAGO	
222	026742	004537	010350	JSR	R5,RXCHAR	:READ/CHK 277(DATA19), RCV 177	UMINZU	
5983 5984 5985 5986 5987 5988 5989 5990 5991 5992 5993 5994 5995 5996	026746	000277		277				
5996	026750	000000		0				
5997	026752	000010		8.				
5998	026754	103003		BCC	.+8.	BR IF NO ERROR		
5000	026734	103003		50000		REPORT STACKED ERROR		
5999	026756			ERROR		INCHARI STACKED ERROR		0450000
6000	026756	104460					TRAP	C\$ERROR
6001	026760			ESCAPE	TST	SKIP TO END OF TEST		
6002	026760	104410					TRAP	C\$ESCAP
6003	026762	000130					. WORD	L10022-
6004	20.05	000200						
	001211		010750			DEAD (OLD 155/045/04) DOL 550		VTE
CONO	026764	004537	010350	JSR	R5,RXCHAR	;READ/CHK 177(DATA20), RCV FIR	DI CKC B	TIE
6006	026770	100177		RXERR!1	77			
6007	026772	000001		RERCHK				
6002 6003 6004 6005 6006 6007 6008 6009 6010 6011 6012 6013 6014 6015	026774	000010		8.				
6000				0.00	.0	.DD TE NO EDDOD		
5007	026776	103003		BCC	. +8.	BR IF NO ERROR		
0010	027000			ERROR		REPORT STACKED ERROR		
6011	027000	104460					TRAP	C\$ERROR
6012	027002			ESCAPE	TST	SKIP TO END OF TEST		
6013	027002	104410		200			TRAP	C\$ESCAPI
6013								
0014	027004	000106					. WORD	L10022-
6015								
6016	027006	004537	010350	JSR	R5,RXCHAR	READ & CHK 1ST CRC BYTE, RCV	SECOND C	RC BYTE
6017	027012	000156		156				
6018	027014							
	WE LUIS	000000		0				
6018 6019	027016	000010		8.				

CVDMECO	DMV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11			A-84 11:12 TEST BCP			SEQ 140
6020	027020					BCC ERROR	.+8.	BR IF NO ERROR		
6022	027022	104460							TRAP	C#ERROR
6023	027024					ESCAPE	TST	SKIP TO END OF TEST	7040	CAECCADE
6024 6025 6026 6027 6028 6029	027024	104410							TRAP . WORD	C\$ESCAPE L10022
6026										
6027	027030		010350			JSR	R5, RXCHAR	READ & CHK 2ND CRC BYTE, RCV :	ST SYNCH	
6028	027034	000236				236				
6029	027036					0				
6050	027040					8.				
6031 6032 6033 6034	027042	103003				BCC	.+8.	BR IF NO ERROR		
6032	027044					ERROR		REPORT STACKED ERROR		
6033	027044	104460							TRAP	C\$ERROR
6034	027046					ESCAPE	TST	SKIP TO END OF TEST		
6035	027046								TRAP	C#ESCAPE
6036	027050	000042							. WORD	L10022
6035 6036 6037 6038 6039			*******		1		0000	APARTURUT AND IT		
6038	027052	005337	002526			DEC	REGO	DECREMENT COUNT		
6039	027056	001406				BEQ	40#	BR IF TRIPLE LOOP IS COMPLETED	,	
6040 6041	003044		*****			100		0 FAD TENH CET TON		
6041	027060		010250	,		JSR	R5.TXCTRL	CLEAR TEOM, SET TSOM		
6042 6043	027064	000001				TSOM				
6045	027056	000001	004700			1	24	AND DIEL TY /DY ACATH		
6044 6045	027070	000137	026320			JMP	2#	; AND RUN TX/RX AGAIN		
6046	027074	004537	011772		404:	JSR	RS, ENTRAN	SHUT DOWN TRANSMITTER, RECEIVE	R	
6047	027100	000011			34:	9.				
6048	027102	103003				BCC	.+8.	BR IF NO ERROR		
6049	027104					ERROR		REPORT STACKED ERROR		
6050	027104	104460							TRAP	C\$ERROR
6051	027106					ESCAPE	TST	SKIP TO END OF TEST		
6052	027106	104410							TRAP	C\$ESCAPE
6053	027110	000002							. WORD	L10022
6054	027112				ENDTST					
6055 6056	027112							L10022		
		104401							TRAP	C\$ETST

CVDMECO		INE UNIT 2-JUL-84	DIAG3 10:56	MACY11				E 142 000 VRC		3CG 141
6057					. SBTTL	TEST 4	DATA TEST	BCP XLB ODD VRC		
6058 6059						******	************	*********************	********	******
6060					1.	****	DATA TEST	200 M 0 000 M00		
6061						IEST 4	DATA TEST	BCP XLB UDD VRC		
6062 6063					. IF	XLB IS	SPECIFIED IN	THE P-TABLE. THIS TEST WILL	TRANSMIT	3
6064					I A RE	CEIVE IN		H ODD VRC ERROR DETECTION TH		
6065						SSAGE:				
6066 6067					:	125 252	000 377 001 00	2 004 010 020 040 100 200 376	375 373 36	7
6068						357 337				
6069					10					•
6070 6071						IS MESSA REE TIME	IGE WILL BE PR	ECEDED BY 3 SYNC CHARACTERS A LAST MESSAGE, SEVERAL SYNC CHA	PACTERS AS	.D
6072						NT BEFOR	E DROPING TXE	& RXE. 7-BIT CHARACTER LENGT	HS ARE ALS	Ö
6073					10 UI	ILIZED.				
6074					10 75	VI D MAC	NOT SPECTETED (A	ND/OR BOARD TYPE IS M8064), TH	TC TECT M	V 05 0184
6075 6076							WAL LOOPBACK (TT		13 1631 16	II DE NON
6077					10					
6078					1	*******	************	********************	*******	******
6079						BGNTST				
6080 6081	027114				•	004131		T4::		
6082	027114	004737	005376			JSR	PC, INIDHV	; INIT DMV-11, ENTER MAINT LOO	•	
6083	027120	042737	001000	027176		BIC	MOLOOP,14	1 THE THE PART COURT (TT) COO CTA	71.00	
6084 6085	027126 027134	012737	000011	027642		CHP	6934 BRDTYP.60	INIT ENTRAN COUNT/TTLOOP STA	105	
6086	027142	001412	002410	00000		BEQ	24	: YES: USE TTLOOP (NOT XLB).		
6087	027144	023727	002472	000004		CHP	TSTCON, 44	IS A LOOPBACK CONNECTOR/CABL	E SPECIFIE	D ?
6088	027152	001406	001000	027176		BIS	26 6NOLOOP.16	BR IF NO : YES: SPECIFY NO TTLOOP (INI	TOWN	
6089	027154 027162	052737 052737	100000	027176		BIS	48IT15,34	AND SPECIFY NOLOOP IN		
6091	05.205	036131	200000	051015	1					
6092										
6093		004537	007234		24:	JSR	R5, INITRN	LOAD 1 SOM, CLK TX UNTIL ACT	CANCH= 534	
6094 6095	027174	062226 000347			14:	TXDL!R	OL	USE 7 BIT CHARS FOR RX & TX	, 3 11611-220	
6096	027200	103003				BCC	8.	IBR IF NO ERROR		
6097	027202					ERROR		REPORT STACKED ERROR	TRAP	C\$ERROR
6098 6099	027202 027204	104460				FSCADE	TST	SKIP TO END OF TEST	IRAP	CAEMMON
6100	027204	104410				ESCHE	131	13/27 10 2/0 07 1231	TRAP	C\$ESCAPE
6101	027206	000446							. WORD	L10023
6102	007010	004533	010176			100	DE TYCHAD	I DAD THE EVENCY TV 15T CVNCH		
6103 6104	027210 027214	004537 000226	010136			JSR SYNCH	R5, TXCHAR	LOAD 2ND SYNCH, TX 1ST SYNCH	Section 1	
6105	027216	000007				7.				
6106	027220	103003				BCC	.+8.	BR IF NO ERROR		
6107	027222	101110				ERROR		REPORT STACKED ERROR	TRAP	C#ERROR
6108 6109	027222 027224	104460				ESCAPE	TST	SKIP TO END OF TEST	IKAP	CAEMMON
6110	027224	104410				COUNT E		10 5.0 0 1501	TRAP	C\$ESCAPE
6111	027226	000426							. WORD	L10023
6112										

CVDMECO	DMV11 P11	LINE UNIT	DIAG3 10:56	MACY11 30A(1052) 12 TEST 4 DA	-JUL-84 11:12 TA TEST BCP	PAGE 143 XLB ODD VRC		SEQ 14
6113	027230 027234	000226	010136	JSR SYNC	RS, TXCHAR	:LOAD 3RD SYNCH, TX 2ND SYNCH		
6115 6116 6117	027236 027240 027242	103003		8. BCC ERRO	. +8.	BR IF NO ERROR REPORT STACKED ERROR		
6118	027242			ESCA	PE TST	SKIP TO END OF TEST	TRAP	C#ERROR
6120	027244 027246						TRAP . WORD	CIESCAPE L10023
6122 6123 6124 6125 6126 6127	027250 027254 027256	000000	010250	JSR 000 0	R5.TXCTRL	CLEAR TSOM		
6126 6127 6128	027260 027264	000125	010136	JSR 125	RS, TXCHAR	;LOAD 125(DATA1), TX 3RD SYNCH		
6126 6129 6130 6131 6132	027266 027270 027272	103003		8. BCC ERRO	. •8.	BR IF NO ERROR REPORT STACKED ERROR		
6133 6134	027272 027274	Table 1		ESCA	PE TST	SKIP TO END OF TEST	TRAP	C#ERROR
6134 6135 6136	027274 027276						TRAP . MORD	CIESCAPE L10023-
6137 6138	027300 027304	000252	010136	JSR 252	R5,TXCHAR	:LOAD 252(DATA2), TX 125(DATA1)		
6139 6140 6141	027306 027310 027312	103003		8. BCC ERRO	. · 6.	BR IF NO ERROR REPORT STACKED ERROR		
6142 6143	027312 027314	104460		ESCA	PE TST	SKIP TO END OF TEST	TRAP	C#ERROR
6144	027314 027316	104410					TRAP . WORD	CSESCAPE L10023-
6146 6147 6148 6149	027320 027324 027326	000000	010136	JSR 000	R5.TXCHAR	;LOAD OOO(DATA3)		
6150 6151 6152 6153 6154	027330 027332	103003		BCC ERRO	. •6.	:BR IF NO ERROR :REPORT STACKED ERROR		C450000
6153	027332 027334			ESCA	PE TST	SKIP TO END OF TEST	TRAP	C#ERROR
6155	027334 027336						TRAP . WORD	L10023-
6155 6156 6157 6158	027340		011624	JSR	R5.RCV1ST	(CLOCK AND RCV 125(DATA1)		
6159 6160	027346	103003		BCC ERRO	R .+8.	BR IF NO ERROR REPORT STACKED ERROR		
6162	027350 027352	104460		ESCA	PE TST	SKIP TO END OF TEST	TRAP	C\$ERROR
6163	027352 027354	104410					TRAP . WORD	C#ESCAPE
6165	027356		010350	JSR	R5,RXCHAR	:READ & CHK 125(DATA1). RCV 252	(DATA2)	
6167 6168	027362 027364			125 RERC	нк	; & CHECK RERR BIT-0 (GOOD VRC)		

	CVDMEC.	DHV11	LINE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 4) 12-JU	L-84 11:12 PAG TEST BCP XLB	GE 144 ODD VRC		
-	6169 6170 6171	027366 027370 027372	103003				8. BCC ERROR	8.	:BR IF NO ERROR :REPORT STACKED ERROR	TDAD	CAEDOOD
	6172	027372	104460				ESCAPE	TET	SKIP TO END OF TEST	TRAP	C\$ERROR
	6173 6174 6175	027374 027374 027376					ESCAPE	131	Janar 10 cm or 1231	TRAP . WORD	C#ESCAPE L10023
	6176					TRANS	MIT THE	BULK OF DATA OUT	T OF TABLE "PATX"		
İ	6178	027400	012702	002646		1	MOV	OPATX+1,R2	SET UP TABLE POINTER		
l	6180	027404	112237	027442		54:	MOV8	(R2)+,20#	SET UP EXPECTED CHARACTER		
١	6181	027410		000001	027422		MOVB	1(R2),10#	SET UP TRANSMIT CHARACTER		
l	6182	007416	004577	010176			JSR	RS. TXCHAR	LOAD A CHARACTER		
ı	6183	027416		010136		104:	000	NJ, INGIOW	** HOLE FOR NEXT TX CHARACTER		
l	6185	027424	000000				0				
١	6186	027426	103003				BCC	. +8.	BR IF NO ERROR		
l	6187	027430					ERROR		REPORT STACKED ERROR	TRAP	C\$ERROR
ĺ	6188	027430	104460				ESCAPE	TST	SKIP TO END OF TEST	Inn	CAEMMON
l	6189 6190	027432	104410				ESCAPE	131	iskar to the or test	TRAP	CIESCAPE
١	6191	027434								. WORD	L10023
1	6192									DACTED	
ı	6193	027436		010350			JSR	R5,RXCHAR	CLK/RECEIVE/CHECK PREVIOUS CHA	RACTER	
ı	6194	027442	000000			204:	000 RERCHK		& CHECK RERR BIT-0 (GOOD VRC)		
l	6195	027444					RENUM		1 & CIECH HENN 821-0 (0000 THE)		
ı	6196 6197	027450					BCC	.+8.	:BR IF NO ERROR		
ı	6198	027452					ERROR		REPORT STACKED ERROR		
ı	6199	027452								TRAP	C\$ERROR
ı	6200	027454					ESCAPE	TST	SKIP TO END OF TEST	TRAP	CSESCAPE
١	6201	027454								. WORD	L10023
١	6202 6203	027456	000176								
١	6204	027460	022702	002737			CMP	#EPATX-1,R2			
١	6205	027464					BNE	5#			
ı	6206					1		AP TUATOL	LOAD TOOM		
1	6207	027466		010250			JSR TSOM	R5.TXCTRL	:LOAD TSOM		
ı	6208	027472					0				
ı	6210	027476	103003				BCC	.+8.	BR IF NO ERROR		
İ	6211	027500	200000				ERROR		REPORT STACKED ERROR		
١	6212	027500	104460							TRAP	C\$ERROR
ı	6213	027502					ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ESCAPE
١	6214	027502	104410							. WORD	L10023
	6215	027504	000150							·	
-	6217	027506	004537	010350			JSR	R5,RXCHAR	:READ & CHK 277, RCV 177		
1	6218	027512		020000			277				
1	6219	027514	000001				RERCHK		; & CHECK RERR BIT-0 (GOOD VRC))	
-	6220	027516	000010				8.		00 TE NO E0000		
-	6221	027520	103003				BCC ERROR	.+8.	BR IF NO ERROR REPORT STACKED ERROR		
	6222	027522	104460				ENNUN		INE-ON! STHENED ENNON	TRAP	C\$ERROR
	6205 6206 6207 6208 6209 6210 6211 6212 6213 6214 6215 6216 6217 6218 6219 6220 6221 6222 6223 6224	027522	104460				ESCAPE	TST	SKIP TO END OF TEST		
-	4330	021364	A LATE OF STREET								

CVDMECO DMV11	LINE UNIT	DIAG3	MACY11	30A(1052)	12-JUL-84	11:12	PAGE 145
CVOMEC.P11	12-JL-84	10:56		TEST 4	DATA TEST	BCP	XLB ODD VRC

6225 6226	027524 027526	104410 000126					TRAP . WORD	C#ESCAPE L10023
6227 6228 6229 6230 6231 6232 6233 6234 6235	027530 027534	004537 000001	010250	JSR TSOM	RS, TXCTRL	ILOAD 2ND TSOM		
6232 6231	027536 027540 027542	103003		BCC ERROR	8.	IBR IF NO ERROR IREPORT STACKED ERROR		
6233	027542	104460		ESCAPE	TST	SKIP TO END OF TEST	TRAP	CIERROR
6235	027544 027546	104410					TRAP . WORD	CIESCAPE L10023
6237 6238	027550	004537	010350	JSR	R5,RXCHAR	IREAD & CHK 177, RCV FIRST SYNC		
6239 6240 6241	027554 027556	000177		177 RERCHK		# & CHECK RERR BIT-0 (GOOD VRC)		
6241	027560	000010		8.				
6242 6243	027562	103003		BCC ERROR	8.	IBR IF NO ERROR REPORT STACKED ERROR		
6244	027564	104460		ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
6242 6243 6244 6245 6246 6247	027566 027570	104410				, 5.1.2. 10 6.1.5 6. 12.5	TRAP . MORD	CIESCAPE L10023
6248	027572	004537	010350	JSR SYNCH	RS,RXCHAR	IREAD & CHK 1ST SYNC, RCV SECON	SYNC	
6251	027576 027600 027602	000226 000001 000010		RERCHK 8.		; & CHECK RERR BIT-0 (GOOD VRC)		
6253	027604	103003		BCC ERROR	8.	18R IF NO ERROR 1REPORT STACKED ERROR		
6255	027606 027610	104460		ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
6248 6249 6250 6251 6252 6253 6254 6255 6256 6257 6258 6259 6260	027610 027612	104410					TRAP . WORD	C\$ESCAPE L10023
6260	027614	004537	010350	JSR SYNCH	R5,RXCHAR	READ & CHK 2ND SYNC, RCV NEXT	ONE	
	027622 027624	000001 000010		RERCHK		1 & CHECK RERR BIT-0 (GOOD VRC)		
6264	027626	103003		8. BCC ERROR	. +8.	# IF NO ERROR		
6266	027630 027630 027632	104460		ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
6262 6263 6264 6265 6266 6267 6268 6269 6270	027632 027634	104410 000020					TRAP . WORD	CIESCAPE L10023

CADH	EC.P11	LINE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 4	DATA	TEST BCP	PAGE 146 XLB 000 VRC			SEQ 145
62 63 63 63 64 65 65 65 65	72 027642 73 027644 74 027646 75 027646 76 027650 77 027650 78 027652	000011 103003 104460 104410 000002	011772		34:	JSR 9. BCC ERROR ESCAPE	RS,ENTRAN .+8. TST	BR IF NO ERROR REPORT STACKED ERROR SKIP TO END OF TEST	L10023:	TRAP TRAP .WORD	C#ERROR C#ESCAPE L10023

CVDNECO		INE UNIT	DIAG3 10:56	MACY11	30A(TES	1052) 12-JU	L-84 11:12 PAG	E 147 EVEN VRC		SEQ 14
6282					. SB	TTL TEST 5	DATA TEST (BCP XLB EVEN VRC		
6283 6284						•••••		••••••	********	******
6285										
6286						TEST 5	DATA TEST I	BCP XLB EVEN VRC		
6287 6288 6289							SPECIFIED IN BCP MODE WITH	THE P-TABLE, THIS TEST WILL HEVEN VRC ERROR DETECTION TO	TRANSMIT	E IG
6290						MESSAGE:				
6291 6292 6293 6294 6295 6296						125 252 357 337		2 004 010 020 040 100 200 376	375 373 36	7
6294						THIS HESSA	CE UTIL DE DO	ECEDED BY 3 SYNC CHARACTERS	MO DEDEATE	0
6296						THREE TIME	S. AFTER THE	LAST MESSAGE, SEVERAL SYNC CH	WACTERS AF	E
6297					10		E DROPING TXE	& RXE. 7-BIT CHARACTER LENGT	THS ARE ALS	0
6298					:	UTILIZED.				
6300						IF XLB WAS	NOT SPECIFIED (A	ND/OR BOARD TYPE IS MB064), TH	IS TEST NO	Y BE RUN
6301					10	USING INTER	NAL LOOPBACK (TT	L00P=1).		
6302						********	***********			******
6304										
6305						BGNTST				
	027656	004737	005376			JSR	PC. INIDHV	INIT OHV-11. ENTER M-LOOP		
6308	027662	042737	001000	027740		BIC	MOLOOP,18	1		
6309	027670	012737	000011	030404		MOV	69.,34	INIT ENTRAN COUNT/STATUS		
6310	027676	023727	002470	000000		CHP	BROTYP, 40	IS BOARD TYPE MB064? I YES: SPECIFY TTLOOP (NOT XI	0)	
	027704	001412 023727	002472	000004		CIP	TSTCON, 44	IS A LOOPBACK CONNECTOR/CABI	E SPECIFIE	D ?
	027714	001406	211200	00000		BEQ	28	IBR IF NO		
6314	027716	052737	001000	027740		BIS	MOLOOP,14	I YES: SPECIFY NO TTLOOP (IN	(TRN)	
	027724	053737	100000	030404		BIS	BIT15,34	AND SPECIFY NOLOOP IN	ENTRAN	
6316 6317	027732	004537	007234		21:	JSR	RS, INITRN	ILOAD 1 SOM, CLK TX UNTIL ACT	IVE	
6318	027736	062626				DDC7P!S	TRIPS!EVRC!SYNCH	ISET DOCHP, STRIP SYNCH, EVEN	VRC . SYNCH	226
6319	027740	000347			14:	TXDL!RX		JUSE 7 BIT CHARS FOR TX & RX		
6320 6321	027742 027744	103003				BCC ERROR	. • 8.	IBR IF NO ERROR REPORT STACKED ERROR		
6322	027744	104460				Childre		INC. ON THORES CHION	TRAP	C#ERROR
6323	027746					ESCAPE	TST	ISKIP TO END OF TEST		
6324	027746	104410							TRAP , WORD	CIESCAPE
6326	027750	000446							. MUNU	F10054-
6327	027752	004537	010136			JSR	RS, TXCHAR	LOAD 2ND SYNCH, TX 1ST SYNC	1	
6328	027756	000226				SYNCH				
6329	027760	000007				7.		-00 TE NO EDOCO		
6324 6325 6326 6327 6328 6330 6331 6332 6333	027762	103003				BCC ERROR	.+8.	IBR IF NO ERROR IREPORT STACKED ERROR		
6332	027764	104460							TRAP	CHERROR
6333	027766					ESCAPE	TST	SKIP TO END OF TEST	7040	0400000
6334	027766	104410							TRAP , WORD	CIESCAPE
6335 6336	027770	000426							. WOND	C100E4-
6337	027772	004537	010136			JSR	R5, TXCHAR	ILOAD SRD SYNCH, TX 2ND SYNC	4	
0331	021112	004331	010130			Jan	no, ingram	tene one directly the End direct		

VDHEC.	DHV11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11 30A(1052) TEST 5) 12-JU	TEST BCP	PAGE 148 XLB EVEN VRC		SEQ 14
6338 6339 6340 6341 6342 6343 6344 6345 6346 6347 6348 6350 6351 6352 6353 6354 6355 6356 6357 6358 6359 6360 6361 6362 6363 6364 6365 6366 6367 6368 6369	027776	000226			SYNCH				
6339	030000				8.		00 75 40 50000		
6340	030002	103003			BCC	. +8.	BR IF NO ERROR		
6341	030004				ERROR		REPORT STACKED ERROR		******
6342	030004	104460					AUTO TA PIO AC TEAT	TRAP	C#ERROR
6343	030006				ESCAPE	TST	SKIP TO END OF TEST		
6344	030006	104410						TRAP	CIESCAPE
6345	030010	000406						. WORD	L10024-
6346									
6347	030012		010250		JSR	R5, TXCTRL	CLEAR TSOM		
6348	030016	000000			000				
6349	030020	000000			0				
6350									
6351	030022	004537	010136		JSR	R5.TXCHAR	;LOAD 125(DATA1), TX 3RD SYNCH		
6352	030026	000125			125				
6353	030026	000010			8.				
6354	030032	103003			BCC	.+8.	BR IF NO ERROR		
6355	030032				BCC ERROR		REPORT STACKED ERROR		
6356	030034	104460						TRAP	C#ERROR
6357	030034				ESCAPE	TST	SKIP TO END OF TEST		
6358	030036	104410						TRAP	CIESCAP
6359	030040	000356						. WORD	L10024-
6360									
6361	030042	004537	010136		JSR	RS, TXCHAR	;LOAD 252(DATA2), TX 125(DATA1)		
6363	030042 030046 030050	000252	020200		252			ر. ادرورورورو	
252	030050	000010			8.			.,	
4364	030050	103003			BCC	. +8.	BR IF NO ERROR		
4345	030056	103003			ERROR		REPORT STACKED ERROR		
6365	030052 030054 030054 030056	104460			EHHON		INCLOUS STHENED CHION	TRAP	CSERROR
4347	030054	104400			ESCAPE	TST	SKIP TO END OF TEST	III	CACHION
6360	030056	104410			ESCAPE	131	tarte to the or ital	TRAP	CHESCAP
6360	030036	104410						. WORD	L10024-
6307	030060	000336						. MUNU	F10054-
6370	070060	004577	010176		ICD	DE TYCHAD	-I DAD DODO(DATAR)		
6371	030062	004537	010136		JSR 000	R5,TXCHAR	:LOAD OOO(DATA3)		
6372	030066	000000							
6373	030070	000000			0		.00 TE NO E0000		
6374 6375	030072	103003			BCC	. +8.	IBR IF NO ERROR		
63/3	030074				ERROR		REPORT STACKED ERROR	7040	CAEDDOO
6376 6377	030074	104460			-	***	CUTO TO END OF TEST	TRAP	C\$ERROR
6377	030076				ESCAPE	TST	SKIP TO END OF TEST	7040	CAECCAD
6378	030076							TRAP	CIESCAP
6379	030100	000316						. WORD	L10024-
6380									
6378 6379 6380 6381 6382 6383 6384 6385 6386 6387 6388 6389 6399	030102		011624		JSR	R5,RCV1ST	(CLOCK AND RCV 125(DATA1)		
6382	030106	000000			0				
6383	030110	103003			BCC	. +8.	BR IF NO ERROR		
6384	030112				ERROR		REPORT STACKED ERROR		
6385	030112	104460						TRAP	C\$ERROR
6386	030114				ESCAPE	TST	SKIP TO END OF TEST		
6387	030114	104410						TRAP	C*ESCAP
6388	030116	000300						. WORD	L10024-
6389									
6390	030120	004537	010350		JSR	R5, RXCHAR	:READ & CHK 125(DATA1), RCV 25	(DATA2)	
6391	030124		32333		125				
6392	030126				RERCHK		& CHECK RERR BIT-0 (GOOD VRC)	
	030130				8.				

CVDMECO CVDMEC.	DMV11 P11	LINE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 5) 12-JU	L-84 11:12 PA TEST BCP XLB	GE 149 EVEN VRC		SEQ 148
6394 6395	030132 030134					BCC ERROR	.+8.	BR IF NO ERROR REPORT STACKED ERROR		
6396 6397	030134	104460				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
6398 6399	030136	104410							TRAP . WORD	C#ESCAPE L10024
6400 6401					TRANS	MIT THE	BULK OF DATA OU	T OF TABLE "PATX"	•••••	
6402					1			•••••		
6403	030142		002646			MOV	OPATX+1,R2	SET UP TABLE POINTER		
6404	030146		030204	070164	54:	HOVB	(R2)+,20#	SET UP EXPECTED CHARACTER		
6405	030152	116237	000001	030164		MOVB	1(R2),10#	SET UP TRANSMIT CHARACTER		
6406 6407	030160	004537	010136			JSR	RS, TXCHAR	:LOAD A CHARACTER		
6408	030164		010130		104:	000	NO INGIAM	100 HOLE FOR NEXT TX CHARACTER		
6409	030166	000000				0				
6410	030170	103003				BCC	. +8.	BR IF NO ERROR		
6411	030172					ERROR		REPORT STACKED ERROR		
6412	030172	104460						AVED TA END OF TEAT	TRAP	C#ERROR
6413	030174					ESCAPE	TST	SKIP TO END OF TEST	TRAP	CSESCAPE
6414	030174								. WORD	L10024
6415 6416	030176	000220							. MUNU	L10054
6417	030200	004537	010350			JSR	RS.RXCHAR	CLK/RECEIVE/CHECK PREVIOUS CHA	RACTER	
6418	030204		020000		201:	000	No involuti	144 HOLE FOR EXPECTED CHARACTER		
6419	030206	000001				RERCHK		& CHECK RERR BIT-0 (GOOD VRC)		
6420	030210	000010				8.				
6421	030212	103003				BCC	.+8.	BR IF NO ERROR		
6422	030214					ERROR		REPORT STACKED ERROR		
6423	030214	104460							TRAP	CIERROR
6420 6421 6422 6423 6424 6425	030216					ESCAPE	TST	SKIP TO END OF TEST	TOAD	CIESCAPE
6423	030216								TRAP . WORD	L10024
6426 6427	030220	000176							. WOND	L10054
6428	030222	022702	002737			CHP	GEPATX-1,R2			
6429	030226	001347	002131			BNE	5#			
6429 6430										
6431	030230	004537	010250			JSR	R5,TXCTRL	;LOAD 1ST TSOM		
6432	030234	000001				TSOM				
6431 6432 6433 6434 6435 6436 6437 6438 6439 6440 6441	030236	000000				0				
6434	030240 030242	103003				BCC	. +8.	BR IF NO ERROR		
6435	030242					ERROR		REPORT STACKED ERROR	TOAD	C\$ERROR
6436	030242	104460				ECCADE	TET	SKIP TO END OF TEST	TRAP	CAEMMON
6437	030244	104410				ESCAPE	TST	12KTh In EMP OF IE21	TRAP	C\$ESCAPE
6430	030246	000150							. WORD	L10024
6440	030240	000130								
6441	030250	004537	010350			JSR	R5,RXCHAR	IREAD & CHK 277, RCV 177		
6442	030254					277				
6442 6443	030256	000001				RERCHK		& CHECK RERR BIT-0 (GOOD VRC)		
6444	030260	000010				8.				
6445	030262	103003				BCC	. +8.	BR IF NO ERROR		
6446	030264					ERROR		REPORT STACKED ERROR	TOAD	CAEDDOO
6447	030264	104460				-	707	CUID TO END OF TECT	TRAP	C\$ERROR
6448	030266	104410				ESCAPE	TST	SKIP TO END OF TEST	TRAP	CSESCAPE
6449	030266	104410							INA	CAESCIALE

CVDMECO CVDMEC.	DHV11 P11	LINE UNIT	DIAG3 10:56	MACY11 30AC	(1052) 12-JU	L-84 11:12 TEST BCP	PAGE 150 XLB EVEN VRC		SEQ 149
6450	030270	000126						. WORD	L10024
6451 6452 6453	030272		010250		JSR TSOM	RS, TXCTRL	:LOAD 2ND TSOM		
6454	030300	000000			BCC	.+8.	BR IF NO ERROR		
6455 6456	030304				ERROR		REPORT STACKED ERROR		
6457 6458	030304	104460			ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
6459 6460 6461	030306 030310	104410						TRAP . WORD	C#ESCAPE L10024
6461 6462 6463	030312		010350		JSR 177	R5,RXCHAR	READ & CHK 177, RCV FIRST SYNC		
6464 6465	030320	000001			RERCHK 8.		; & CHECK RERR BIT-0 (GOOD VRC)		
6466 6467	030324	103003			BCC ERROR	.+8.	BR IF NO ERROR REPORT STACKED ERROR		
6468 6469	030326	104460			ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
6470 6471	030330 030332	104410						TRAP . WORD	C#ESCAPE L10024
6472 6473	030334		010350		JSR	R5,RXCHAR	READ & CHK 1ST SYNC, RCV SECON	D SYNC	
6474 6475	030340 030342	000001		1	SYNCH		: & CHECK RERR BIT-0 (GOOD VRC)		
6476 6477 6478	030344 030346 030350	103003			BCC ERROR	.+8.	BR IF NO ERROR		
6479	030350	104460			ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
6481 6482	030352 030354	104410						TRAP . WORD	CSESCAPE L10024
6484 6485	030356 030362		010350		JSR SYNCH	R5,RXCHAR	READ & CHK 2ND SYNC, RCV NEXT	ONE	
6486 6487	030364 030366	000001			RERCHK 8.		; & CHECK RERR BIT-0 (GOOD VRC)		
6488 6489	030370	103003			BCC ERROR	.+8.	BR IF NO ERROR REPORT STACKED ERROR		
6490 6491	030372 030374				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
6492 6493	030374 030376							TRAP . WORD	C\$ESCAPE L10024
6494 6495 6496	030400		011772	24.	JSR	R5,ENTRAN	SHUT DOWN TRANSMITTER, RECEIVE	R	
6497 6498	030406	103003		34:	BCC ERROR	. +8.	BR IF NO ERROR		
6499 6500	030410	104460			ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
6501 6502	030412	104410						TRAP . WORD	C\$ESCAPE L10024
6503 6504	030416	11 2 3 6		ENC	OTST		L10024:	TRAP	C#ETST
6505	030416	104401						IKAP	C4E131

CVDMECO CVDMEC.	DHV11	LINE UNIT	DIAG3 10:56	MACY11			L-84 11:12 P			SEG 150
6506					.SBTT	L TEST 6	DATA TEST -	- BOP XLB CRC-CCITT-1		
6506 6507 6508 6509 6510 6511 6512 6513 6514 6515 6516 6517 6518 6519 6520 6521 6522 6523 6524 6525					:	TEST 6 F XLB IS ECEIVE IN HORT MESSA HIS MESSA HREE TIME ENGTHS ARE	SPECIFIED I BOP MODE WIT GE: 125 252 GE WILL BE S WITH CRC AND ALSO UTILIZED	BOP XLB CRC-CCITT-1 IN THE P-TABLE, THIS TEST WILL TH CRC-CCITT-1 ERROR DETECTION THE 000 377 001 PRECEDED BY FLAG CHARACTERS AND FLAG'S FOLLOWING EACH ONE. 8-BIT	REPEATED CHARACTE	iG :R
6525 6526 6527 6528 6529 6530 6531 6532 6533	030420 030426 030432 030440 030446 030456 030460	004737 042737 023727 001407 023727 001403	005376		•	MOV JSR BIC CMP BEQ CMP BEQ BIS	#3,REGO PC,INIDHV #NOLOOP,1# BRDTYP,#0 2# TSTCON,#4 2# #NOLOOP,1#	:INIT COUNT (TEXT TRANSMITTED :INIT DMV-11, ENTER MAINT LOOF :IS BOARD TYPE = M8064 ?: YES: SPECIFY TTLOOP (NO XLB: IS A LOOPBACK CONNECTOR/CABLE :BR IF NO :YES: SPECIFY NO TTLOOP (INIT	SPECIFIE	
6536 6537 6538 6539	030466 030472 030474 030476 030500 030500 030502 030502	000000 000000 103003	007234		26:	JSR 0 0 BCC ERROR ESCAPE	RS, INITRN .+8. TST	:LOAD 1 SOM, CLK TX UNTIL ACTI :SET BOP MODE, CRC-CCITT=>1'S (:USE 8 BIT CHARS :BR IF NO ERROR :REPORT STACKED ERROR :SKIP TO END OF TEST	TRAP	C#ERROR C#ESCAPE
6541 6542 6543 6544 6545 6546 6547 6548 6549	030504 030506 030512	000374 004537 000001	010250			JSR TSOM	R5,TXCTRL	ILOAD 2ND FLAG. TX 1ST FLAG	. WORD	L10025
6549 6550	030514 030516 030522 030524	004537	010250			JSR TSOM	R5,TXCTRL	:LOAD 3RD FLAG, TX 2ND FLAG		
6550 6551 6552 6553 6554 6555 6556 6557 6558	030526 030532 030534	004537 000001	010250			JSR TSOM 8.	R5,TXCTRL	LOAD 4TH FLAG. TX 3RD FLAG		
6555 6556 6557	030536 030542 030544	004537 000000 000000	010250			JSR 000 0	R5,TXCTRL	CLEAR TSOM		
6560	030546 030552 030554	004537 000125 000010	010136			JSR 125 8.	R5,TXCHAR	LOAD DATA1(125), TX 4TH FLAG		
6561	030556	103003				BCC	. • 8 .	BR IF NO ERROR		

CVDMECO	DMV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11 30A(1052 TEST 6) 12-JU	A-84 11:12 TEST 80P	PAGE 152 XLB CRC-CCITT-1		SEG 151
6562	030560				ERROR		REPORT STACKED ERROR		
6563	030560	104460						TRAP	C#ERROR
6564	030562				ESCAPE	TST	SKIP TO END OF TEST	TDAD	CAECCADE
6562 6563 6564 6565 6566 6567 6568 6569 6571 6572 6573 6574	030564	104410						TRAP . WORD	C\$ESCAPE L10025
6567			*****		ICO	DE TYCHAD	:LOAD DATA2(252), TX DATA1(125)		
6568	030566	004537	010136		JSR 252	R5.TXCHAR	ILUMU DATAS(535), TA DATAI(125)		
6570	030574				8.				
6571	030576	103003			8. BCC ERROR	. +8.	IBR IF NO ERROR		
6572	030600				ERROR		REPORT STACKED ERROR		
6573	030600	104460						TRAP	C#ERROR
6574	030602				ESCAPE	TST	SKIP TO END OF TEST		
6575	030602	104410						TRAP	CIESCAPE
6576 6577 6578 6579 6580 6581 6582 6583 6584 6585 6586 6586 6587 6588 6589 6590	030604	000274						. WORD	L10025
6577						DE TYOUAS			
6578	030606	004537	010136		JSR	RS, TXCHAR	;LOAD DATA3(000), TX DATA2(252)		
6579	030612	000000			000				
6580	030614	103003			8.	.+8.	BR IF NO ERROR		
6563	030616	103003			BCC ERROR		REPORT STACKED ERROR		
5828	030620	104460			CHION			TRAP	C\$ERROR
6584	03062	201100			ESCAPE	TST	SKIP TO END OF TEST		GVC
6585	030620 030620 030620	104410						TRAP	CIESCAPE
6586	030624	000254						. WORD	L10025
6587									
6588	030626	004537	010136		JSR	R5, TXCHAR	:LOAD DATA4(377), TX DATA3(000)		
6589	03063	000377			377				
6590	030634	000010			8.		00 TE NO EDDOO		
6591	030636	103003			BCC	.+8.	IBR IF NO ERROR		
6592 6593	030640				ERROR		IREPORT STACKED ERROR	TRAP	C\$ERROR
6504	030640	104460			ESCAPE	TST	SKIP TO END OF TEST	INA	CPENNON
6594 6595	03064	104410			ESCAPE	131		TRAP	CIESCAPE
6596	030644	000234						. WORD	L10025
6596 6597 6598 6599	03001	000234							
6596	030646	004537	010136		JSR	RS, TXCHAR	:LOAD DATA5(001), TX DATA4(377)		
6599	030652	000001			001				
6600	030654	000011			9.				
6601	030656	103003			BCC	8.	BR IF NO ERROR		
6601 6602 6603 6604 6605 6606	030660				ERROR		REPORT STACKED ERROR		0450000
6603	030660	104460					CHID TO CHO OF TEST	TRAP	C\$ERROR
6604	03066				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ESCAPE
6605	03066	104410						. WORD	L10025
6600	030664	000214						. WORD	CIOCES.
6608	030666	004537	010250		JSR	RS. TXCTRL	SET TEOM		
6608 6609	03067		010530		TEOM	NJ, INGINE	100.		
6610	030674				0				
6610 6611					-				
6612	030676	004537	011624		JSR	R5,RCV1ST	CLOCK AND RCV DATA1(125)		
6613	030702	000000			0				
6614	030704	103003			BCC	8.	BR IF NO ERROR		
6615	03070	5			ERROR		REPORT STACKED ERROR	7040	0450000
6616	03070				EC0405	***	CUID TO FUD OF TEST	TRAP	C\$ERROR
6617	030710	,			ESCAPE	TST	SKIP TO END OF TEST		

VDMECO	DHV11 P11	LINE UNIT	DIAG3 10:56	MACY11 30A(10		-84 11:12 EST BOP X	PAGE 153 LB CRC-CCITT-1		SEQ 152
6618	030710							TRAP	C#ESCAPE
6619 6620	030712							. WORD	L10025
6621	030714	004537	010350		JSR	R5.RXCHAR	READ/CHK DATA1(125), RCV	DATA2(252)	
6621 6622 6623 6624 6625 6626 6627 6628 6630 6631 6632 6633 6634 6635 6636	030720				RXSOM: 12		; & CHECK RSOM-1		
6623	030722				0				
6624	030724	000010			8.				
6625	030726					.+8.	BR IF NO ERROR		
6626	030730				ERROR		REPORT STACKED ERROR		
6627	030730							TRAP	C\$ERROR
6628	030732				ESCAPE	TST	SKIP TO END OF TEST		
6629	030732							TRAP	CIESCAPE
6630	030734	000144						. WORD	L10025
6631									
6632	030736		010250			RS, TXCTRL	SET TEOM		
6633	030742				TEOM				
6634	030744	000000			0				
6635	070746	004577	-		ICD	DE DYCHAD	DEAD (CHY DATAS(SES) DOW	DATAT(000)	
6636	030746		010350			R5,RXCHAR	READ/CHK DATA2(252), RCV	DM 143(000)	
6637	030752				252				
6638	030754				8.				
6638 6639 6640	030756					. +8.	BR IF NO ERROR		
6641	030762				ERROR	. *0.	REPORT STACKED ERROR		
6642	030762				ENNON		INCLOUD STACKED ENROR	TRAP	C\$ERROR
6643	030764	104400			ESCAPE	TST	SKIP TO END OF TEST	INA	CYENNON
6644	030764	104410			Court		13/21 10 6/6 01 1631	TRAP	C\$ESCAPE
6645	030766							. WORD	L10025
6645 6646									
6647	030770	004537	010350		JSR	R5.RXCHAR	:READ/CHK DATA3(000), RCV	DATA4(377)	
6648	030774				000				
6649	030776	000000			0				
6650	031000	000010			8.				
6651	031002	103003			BCC ERROR	. +8.	BR IF NO ERROR		
6652	031004				ERROR		REPORT STACKED ERROR		
6653	031004	104460						TRAP	C\$ERROR
6654	031006				ESCAPE	TST	SKIP TO END OF TEST		04500405
6655	031006							TRAP	CIESCAPE
6656	031010	000070						. WORD	L10025
6657	071012	004577	010750		ICD	RS.RXCHAR	:READ/CHK DATA4(377), RCV	DATAS(AA1)	
6658 6659	031012 031016		010350		JSR 377	אארוטאא, כא	INEMUTCHE DETAMOSTT, REV	DW1W2(001)	
6660	031020	000000			0''				
6660 6661 6662 6663 6664 6665	031022	020010			NCRACT!8		DON'T CHECK FOR FINAL RX	ACT=1	
6662	031024	103003				. +8.	BR IF NO ERROR	1-2	
6663	031026	20000			ERROR		REPORT STACKED ERROR		
6664	031026	104460					the out of the control	TRAP	C\$ERROR
6665	031030				ESCAPE	TST	SKIP TO END OF TEST		
6666	031030	104410					,	TRAP	C\$ESCAPE
6667	031032							, HORD	L10025
6668									
6667 6668 6669	031034	004537	010350		JSR	R5,RXCHAR	;READ/CHK DATA5(001), RCV	FIRST FLAG	
6670	031040	001001			RXEOM! 00		; & CHECK REOM		
6671	031042	000001			RERCHK		& CHECK RERR BIT-0 (GOO		
6672	031044	060000			NFCRDA!N	CRACT	DON'T CHECK FOR FINAL RD		
6673	031046				BCC	.+8.	BR IF NO ERROR		

	and the second second
	152
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CVDMEC.		LINE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 6) 12-JU		PAGE 154 XLB CRC-CCITT-1		SEQ 153
6674	031050					ERROR		REPORT STACKED ERROR	7040	0450000
6675	031050					ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
6676 6677 6678	031052 031054	104410				ESUAPE	131	JORAF TO END OF TEST	TRAP . WORD	C#ESCAPE L10025
6679 6680 6681	031056 031062		002526		1	DEC BEQ	REGO 40#	DECREMENT COUNT BR IF TRIPLE LOOP IS COMPLETED		
6682 6683 6684	031064	000001	010250			JSR TSOM	R5,TXCTRL	CLEAR TEOM, SET TSOM		
6685 6686 6687	031072 031074 031100	000137	030466		401:	JHP	24	AND RUN TX/RX AGAIN		
6688 6689 6690	031100 031100				ENDTST			` L10025:	TRAP	C#ETST

CYDMEC.		LINE UNIT	DIAG3 10:56	MACY11			DATA	L-84 11:12 P			364 134
6691 6692					.SB	TTL	TEST 7	DATA TEST -	BOP XLB CRC-CCITT-0		
6693						****	******	***********	***********************	********	******
6694							TEST 7	- DATA TEST	BOP XLB CRC-CCITT-0		
6695 6696					10		1631	UNIN 1E31 -	- BUP ALB CHC-CCIII-U		
6697						IF	XLB IS	SPECIFIED I	IN THE P-TABLE, THIS TEST WILL	TRANSMIT	3
6698							EIVE IN	BOP MODE WIT	TH CRC-CCITT-O ERROR DETECTION THE	E FOLLOWIN	NG .
6699						SHO	RT MESSA	GE: 125 252	000 377 001		
6700 6701						THE	C HECCA	CE UTIL RE	PRECEDED BY FLAG CHARACTERS AND	DEDEATED	
6702						THR	EE TIME	S WITH CRC AND	FLAG'S FOLLOWING EACH ONE. 8-8	T CHARACTE	ER
6703						LEN	GTHS ARE	ALSO UTILIZED			
6704						TE	VI D 114C	NOT COCCTETED	/AND /00 BOADD TYDE TO MROCAL TO	TC TECT M	
6705 6706								NAL LOOPBACK ((AND/OR BOARD TYPE IS M8064), TI	ITO IEDI UN	AT BE HUN
6707						-					
6708					1	****	******	**********	*******************************	********	******
6709							BGNTST				
6710 6711	031102						BGM131		T7::		
6712	031102	012737	000003	002526			MOV	#3.REGO	INIT COUNT (TEXT TRANSMITTE	3 TIMES)	
6713	031110	004737	005376				JSR	PC, INIDHV	; INIT DHV-11, ENTER MAINT LO)P	
6714	031114	042737	001000	031156			BIC	BROTYP, 40	POADO TYPE - MOCA 2		
6715 6716	031122 031130	023727 001407	002470	000000			BEQ	24	: BOARD TYPE = M8064 ? : YES: SPECIFY TTLOOP (NOT XI	B)	
6717	031132	023727	002472	000004			CMP	TSTCON, 44	IS A LOOPBACK CONNECTOR/CABI	E SPECIFIE	ED ?
6718	031140	001403					BEQ	24	BR IF NO		
6719	031142	052737	001000	031156			BIS	#NOL00P,1#	: YES: SPECIFY NO TTLOOP (IN	(YRN)	
6720 6721	031150	004537	007234		24:		JSR	RS, INITRN	LOAD 1 SOM, CLK TX UNTIL ACT	TVF	
6722	031154	000400	001201				CRCOS	113 2142 1144	SET BOP MODE, CRC-CCITT=>0'S	CHECK	
6723	031156	000000			14:		0		USE 8 BIT CHARS		
6724	031160	103003					BCC ERROR	.+8.	BR IF NO ERROR REPORT STACKED ERROR		
6725 6726	031162 031162	104460					ENHUN		INEPORT STACKED ERROR	TRAP	C\$ERROR
6726 6727 6728 6729 6730 6731 6732 6733 6734 6735 6736 6737 6738	031164	201100					ESCAPE	TST	SKIP TO END OF TEST		
6728	031164	104410								TRAP	CIESCAPE
6729	031166	000374								. WORD	L10026
6731	031170	004537	010250				JSR	RS, TXCTRL	LOAD 2ND FLAG. TX 1ST FLAG		
6732	031174	000001	******				TSOM		, cond the vene, in territor		
6733	031176	000007					7.				
6734	031200	004537	010250				JSR	R5,TXCTRL	LOAD 3RD FLAG, TX 2ND FLAG		
6736	031204 031206	000001					TSOM 8.				
6737	031210	004537	010250				JSR	R5,TXCTRL	LOAD 4TH FLAG. TX 3RD FLAG		
6738	031214	000001					TSOM				
6739	031216	000010	010050				8.	-	CI FAD TOOM		
6741	031220 031224	004537	010250				JSR 000	R5,TXCTRL	CLEAR TSOM		
6742	031226	000000					0				
6743	031230	004537	010136				JSR	R5, TXCHAR	:LOAD DATA1(125), TX 4TH FLAG	5	
6744	031234	000125					125				
6745 6746	031236	000010 103003					BCC	.+8.	BR IF NO ERROR		
0/40	031240	103003					000		ION AT THE ENNON		

000252 000010 103003 104460 104410 000274	10136	ERROR ESCAPE JSR 252 8. BCC ERROR ESCAPE JSR 000	TST RS.TXCHAR .+8. TST	REPORT STACKED ERROR SKIP TO END OF TEST LOAD DATA2(252), TX DATA1(125) BR IF NO ERROR REPORT STACKED ERROR SKIP TO END OF TEST	TRAP . MORD	C#ERROR C#ESCAPE L10026 C#ERROR C#ESCAPE
104410 000314 000314 0004537 0000252 000010 103003 104460 104410 000274 004537 000000 000010 103003		JSR 252 8. BCC ERROR ESCAPE	RS.TXCHAR .+8. TST	:SKIP TO END OF TEST :LOAD DATA2(252). TX DATA1(125) :BR IF NO ERROR :REPORT STACKED ERROR	TRAP .MORD	C#ESCAPE L10026
104410 000314 000314 0004537 0000252 000010 103003 104460 104410 000274 004537 000000 000010 103003		JSR 252 8. BCC ERROR ESCAPE	RS.TXCHAR .+8. TST	:LOAD DATA2(252), TX DATA1(125) :BR IF NO ERROR :REPORT STACKED ERROR	TRAP	C#ERROR
000314 004537 000252 000010 103003 104460 104410 000274 004537 000000 000010 103003		252 8. BCC ERROR ESCAPE	. •8. TST	BR IF NO ERROR REPORT STACKED ERROR	TRAP	C#ERROR
004537 000252 000010 103003 104460 104410 000274 004537 000000 000010 103003		252 8. BCC ERROR ESCAPE	. •8. TST	BR IF NO ERROR REPORT STACKED ERROR	TRAP	C#ERROR
000252 000010 103003 104460 104410 000274 004537 000000 000010 103003		252 8. BCC ERROR ESCAPE	. •8. TST	BR IF NO ERROR REPORT STACKED ERROR	TRAP	
000252 000010 103003 104460 104410 000274 004537 000000 000010 103003		252 8. BCC ERROR ESCAPE	. •8. TST	BR IF NO ERROR REPORT STACKED ERROR	TRAP	
000010 103003 104460 104410 000274 004537 000000 000010 103003	10136	8. BCC ERROR ESCAPE	TST	REPORT STACKED ERROR	TRAP	
103003 104460 104410 000274 004537 000000 000010 103003	10136	BCC ERROR ESCAPE	TST	REPORT STACKED ERROR	TRAP	
104460 104410 000274 004537 000000 000010 103003	10136	ESCAPE	TST	REPORT STACKED ERROR	TRAP	
104410 000274 004537 000000 000010 103003	10136	ESCAPE			TRAP	
000274 004537 000000 000010 103003	10136	JSR		SKIP TO END OF TEST		CHESCAPE
000274 004537 000000 000010 103003	10136					CSESCAPE
004537 0 000000 000010 103003	10136				The second	
000000 000010 103003	10136				. MUNU	L10026
000000 000010 103003	10136		DE TYCHAD	-1 040 04747(000) TV 04742(353		
000010 103003			R5, TXCHAR	:LOAD DATA3(000), TX DATA2(252)	,	
103003		8.				
		BCC	8.	BR IF NO ERROR		
104460		BCC ERROR		REPORT STACKED ERROR		
					TRAP	C#ERROR
		ESCAPE	TST .	SKIP TO END OF TEST		
104410					TRAP	CHESCAPE
000254					. WORD	L10026
-	10176	100	DE TYCHAD	-1 040 04744(\$77) TV 04747(000)		
004537 0 000377	10136	JSR 377	R5, TXCHAR	:LOAD DATA4(377), TX DATA3(000)	,	
000010		8.				
103003		BCC	. +8.	IBR IF NO ERROR		
		ERROR		REPORT STACKED ERROR		
104460					TRAP	C*ERROR
		ESCAPE	TST	SKIP TO END OF TEST		
104410						CIESCAPE
000234					. MUND	L10026
004587 0	10126	ICD	DS TYCHAD	OAD DATASCOOL) TV DATAACETT	,	
	10130		NJ, INCIDAL	TECHO BRINS(OUT), IN BRINS(SIT	,	
000011						
		BCC	. +8.	BR IF NO ERROR		
		ERROR		REPORT STACKED ERROR		
104460					TRAP	CHERROR
		ESCAPE	TST	ISKIP TO END OF TEST		04555405
						CIESCAPE
000514					. MUNU	L10026
004537 0	10250	.ICB	RS. TXCTRI	SET TERM		
				100.		
000000		0				
004537 0	11624	JSR	R5,RCV1ST	CLOCK AND RCV DATA1(125)		
000000		0				
103003			. +5.			
104460		ERRUR		INEPORT STACKED ENROR	TDAD	C\$ERROR
104400		ECCADE	TST	CKID TO END OF TEST	IKAP	CAEMMON
		ESCHPE	131	I SHAF TO END OF TEST	TRAP	CIESCAPE
	104410 000234 004537 000001 000011 103003 104460 104410 000214 004537 000002 000000 004537	104410 000234 004537 010136 000001 103003 104460 104410 000214 004537 010250 000002 000000 004537 011624 000000 103003	104460 104410 000234 004537 010136	104460 104410 000234 004537	104460 104410 000234 DOST	104460 104410 000234 004537 010136

VOMECO	DHV11	LINE UNIT 12-JUL-84	DIAG3	MACY11 30A(1052 TEST 7	DATA 1	-84 11:12 EST BOP X	PAGE 157 LB CRC-CCITT-0		
6803		000166						. WORD	L10026
6804							DEAD (CIAN DATA) (105) DCV D	742/2523	
6805	031376	004537	010350			R5,RXCHAR	READ/CHK DATA1(125), RCV DATA1	11M2(525)	
6806	031402	000525			RXSOM!12	3	1 & CHECK MOULT		
6807	031404	000000			0				
6808	031406				8.		-00 TE NO EDDOD		
6809	031410				BCC	. +8.	BR IF NO ERROR		
6810	031412				ERROR		REPORT STACKED ERROR	TRAP	C\$ERROR
6811	031412					***	CUTD TO END OF TEST	IRAP	CIENNUN
6812	031414				ESCAPE	TST	SKIP TO END OF TEST	TRAP	CIESCAP
6813	031414	104410							
6814	031416	000144						. WORD	L10026-
6815							CET TECH		
6816	031420		010250		JSR	R5, TXCTRL	SET TEOM		
6817	031424	000002			TEOM				
6818	031426	000000			0		0540 (01H 04540(050) 00H 0	*****	
6819	031430	004537	010350		JSR	R5,RXCHAR	;READ/CHK DATA2(252), RCV D	ATA3(000)	
6820	031434	000252			252				
6821	031436	000252			0				
6822	031440	900010			8.	2-			
6823	031442	103003			BCC	. +8.	BR IF NO ERROR		
6824	031444				ERROR		REPORT STACKED ERROR		
6825	031444	104460						TRAP	C#ERROR
6826	031446				ESCAPE	TST	SKIP TO END OF TEST		
6827	031446	104410						TRAP	CIESCAP
6828	031450							. WORD	L10026-
6819 6820 6821 6822 6823 6824 6825 6826 6827 6828 6829 6830									
6830	031452	004537	010350		JSR	R5,RXCHAR	;READ/CHK DATA3(000), RCV D	ATA4(377)	
6831	031456				000				
6832	031460				0				
6833	031462				8.				
6832 6833 6834	031464				BCC	. +8.	;BR IF NO ERROR		
6835	031466				ERROR		REPORT STACKED ERROR		
6836	031466	104460						TRAP	C\$ERROR
6837	031470				ESCAPE.	TST	SKIP TO END OF TEST		
6838	031470	104410						TRAP	C\$ESCAP
6838 6839	031472	000070						. WORD	L10026-
6840	002416								
6841	031474	004537	010350		JSR	R5.RXCHAR	;READ/CHK DATA4(377), RCV D	ATA5(001)	
6842	031500		02000		377				
6843	031502	000000			0				
6844	031504	020010			NCRACT!	8.	DON'T CHECK FOR FINAL RXAC	T=1	
6845	031506	103003			BCC	.+8.	BR IF NO ERROR		
6846	031510	200000			ERROR		REPORT STACKED ERROR		
6847	031510	104460						TRAP	C\$ERROR
6848	031512	201100			ESCAPE	TST	SKIP TO END OF TEST		
6848 6849	031512	104410				1		TRAP	C\$ESCAP
6850	031514	000046						, WORD	L10026-
6851	431314								
6852	031516	004537	010350		JSR	R5,RXCHAR	READ/CHK DATAS(001), RCV F	IRST FLAG	
6853	031522		010330		RXEOM! O		& CHECK REOM		
6854					RERCHK	-	& CHECK RERR BIT-0 (GOOD	CRC)	
6854	031524	0600001			NFCRDA!	MCRACT	DON'T CHECK FOR FINAL RDA-	RXACT=1	
6855	031526	060000				. +8.	BR IF NO ERROR		
6856	031530	103003			BCC ERROR		REPORT STACKED ERROR		
6857	031532 031532	104460			ENNON		Inc. out 3 mones comon	TRAP	C\$ERROR
6858									

CVDMEC.	DHV11 P11	LINE UNIT	DIAG3 10:56	MACY11		12-JA	L-84 11:12 TEST BOP	PAGE 158 XLB CRC-CCITT-0		366 137
6859 6860 6861	031534 031534 031536	104410				ESCAPE	TST	SKIP TO END OF TEST	TRAP . WORD	C#ESCAPE L10026
6862 6863 6864	031540 031544		002526		,	DEC	REGO 401	DECREMENT COUNT BR IF TRIPLE LOOP IS COMPLETED		
6865 6866 6867 6868	031546 031552 031554	000001	010250			JSR TSOM	RS, TXCTRL	CLEAR TEOM, SET TSOM		
6869 6870 6871	031556 031562 031562	000137	031150		404: ENDTST	JHP	24	AND RUN TX/RX AGAIN		
6872 6873	031562 031562				2.3131			L10026:	TRAP	C#ETST

```
MACY11 30A(1052) 12-JUL-84 11:12 PAGE 159
CVDMECO DMV11 LINE UNIT DIAGS
                                        TEST 8 -- MODEM CONTROL SIGNAL LOOPBACK TEST
              12-JAL-84 10:56
CVDMEC.P11
                                        SBITL TEST 8 -- MODEM CONTROL SIGNAL LOOPBACK TEST
  6874
  6875
 6876
                                        ..
  6877
                                                TEST 8 -- MODEM CONTROL SIGNAL LOOPBACK TEST
                                        ..
  6878
  6879
                                        ..
                                           FIRST, THE DMV-11 IS INITIALIZED. THEN, TTL LOOPBACK IS SELECTED.
  6880
                                        10
                                            AND THE FOLLOWING CHECKS ARE PERFORMED INVOLVING THE MODEM STATUS
  6881
                                            REGISTER :
  6882
                                           - RING, CARRIER, MODEM READY, TEST MODE, CTS ARE CHECKED FOR 1 STATE.
- RTS IS DE-ASSERTED AND CTS IS CHECKED FOR 0.
  6883
  6884
                                            - RTS IS ASSERTED AND CTS IS CHECKED FOR 1.
  6885
                                        10
                                        ..
  6886
                                           NEXT, IF THE OPTION IS AN MOOSS WITH AN HS254 TEST CONNECTOR INSTALLED. THE DMV-11 IN INITIALIZED AGAIN, (TTL LOOPBACK IS CLEARED), AND
  6887
                                        ..
  6888
                                            THE FOLLOWING CHECKS ARE PERFORMED :
  6889
  6890
                                            - RING (IF EIA), CARRIER, MODEN READY, CTS ARE CHECKED FOR 1, TEST
                                              MODE IS CHECKED FOR O.
  6891
                                           - ATS IS DE-ASSERTED, AND CARRIER AND CTS ARE CHECKED FOR O.
  6892
                                           - RTS IS ASSERTED, AND CARRIER AND CTS ARE CHECKED FOR 1.
  6893
                                           - DTR IS DE-ASSERTED, AND MODEM READY IS CHECKED FOR O.
  6894
                                            - DTR IS ASSERTED, AND MODEH READY IS CHECKED FOR 1.
                                        :.
                                        10
                                        6897
  6898
                                                BGNTST
  6899
  6900
       031564
                                                                        ISET TEST NO. FOR POSSIBLE PRINTOUT
                                                MOV
                                                        46. , TSTNUH
       031564
                012737
                        000010
  6901
                                002414
                                                JSR
                                                        RS.CKLPBK
                                                                        ICHK FOR H3254/5 INSTALLED
  6902
       031572
                004537
                        007532
                                                TCCHEK
  6903
       031576
                100000
                                                                        IBR IF YES, TO RUN TEST
                103002
  6904
       031600
                                                BCC
                                                        TST
                                                EXIT
                                                                        IND TEST CONNECTOR, SKIP TEST
  6905
       031602
                                                                                                         TRAP
                                                                                                                 C$EXIT
  6906
       031602
                104432
                                                                                                                 L10027-.
  6907
                                                                                                         . WORD
       031604
                000722
                                        21:
  6908
        031606
                                                BGNSUB
  6909
       031606
  6910
       031606
                                                                                                 T8.1:
                                                                                                         TRAP
                                                                                                                 C#BSUB
  6911
       031606
               104402
                                        INIT DHY, SET TTL LOOPBACK, CHK HODEM STATUS
  6912
                                                        PC. MSTCLR
                                                                        PERFORM MASTER CLEAR TO INIT DMV11
  6913 031610
                004737
                                                JSR
                        003352
                                                                        ISET PORT B FOR OUTPUT MODE
  6914 031614
                004537
                                                JSR
                                                        RS. MRITEI
                        003712
                120002
                                                VIADPB
  6915 031620
       031622
                                                377
  6916
                000377
       031624
                                                        RS. WRITEI
                                                                        ISET PORT A FOR INPUT MODE
  6917
                004537
                        003712
                                                JSR
                                                VIADPA
  6918
       031630
                120003
       031632
                000000
                                                000
  6919
                                                JSR
                                                        RS, WRITEI
                                                                        ISET TTL LOOPBACK
  6920
       031634
                004537
                        003712
                                                VIAORB
  6921
        031640
                120000
  6922
        031642
                000002
                                                TTLOOP
                                                        #1, REGNUM
  6923
        031644
                012737
                        000001 002336
                                                                        ISET REG NO. FOR PRINTOUT
                                                MOV
                                        1CHK FOR RING, CARRIER, MODEM RDY, CTS, TEST MODE, = 1
  6924
                                                        RS. READI
                                                                        READ HODEM STATUS
  6925
       031652
                004537
                        073566
                                                JSR
                                                VIAORA
  6926
       031656
                120017
        031660
  6927
                000000
                                                 MORD
                                        46:
        031662
                                                BICB
                                                        OSPEED! RCVDAT! UMAINT, 44 CLEAR UNNEEDED BITS
                142737
                        000023
        031670
                123727
                        031660
                                000354
                                                CMPB
                                                        44. GRING! CARIER! MONROY! CTS! TH I CHK FOR BITS SET
```

CVDMECO.		INE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 8		CONTROL SIGNAL		TEST			3EG 139
6930 6931 6932 6933 6934 6935 6936 6937 6938 6939 6940 6941 6942 6943 6944 6945 6946 6947 6948 6949 6950 6951 6952 6953 6954 6955 6956 6957 6958 6959 6960 6961 6962	031676 031700 031706 031714	001414 012737 013737	000354 031660	002324 002326	REPORT	BEQ MOV MOV "MODEM S	8# #RING!CARIER!# 4#,80ATA STATUS INCORREC EM83,ERR11	BR IF DMRDY!CTS SET AC	ALL BITS SET S!TM,GDATA ;SET CTUAL DATA			
6935	AT1 714	104455							"DEVICE FATAL		RAP	CAEDOE
6936	031714	104455									WORD	C#ERDF 66
6938	031720	015262									MORD	EM83
6939	031722	020540									MORD	ERR11
6940	031724					ESCAPE	SUB				040	04555405
6941	031724	104410									RAP WORD	C\$ESCAPE L10030
6943	037150	000100			DE-ASS	ERT RTS.	CHK FOR CTS .	0			MOND	L10030
6944	031730		003712		84:	JSR	RS, WRITEI		SERT RTS			
6945	031734	120000				VIAORB						
6946	031736	000012	007566			RTSND!T	ILOUP DE DEADT	.0540	MODEN CTATUE			
6948	031740 031744	004537 120017	003566			JSR VIAORA	R5,READI	INEND I	HODEM STATUS			
6949	031746	000000			104:	. MORD	0					
6950	031750	132737	000010	031746		BITB	OCTS, 10#		OR CTS = 0			
6951	031756	001406				BEQ	12#	BR IF	YES			
6952	031760				REPORT	CTS NOT	CLEARED EM84,ERR14					
6954	031100					GEU	CLIDA! CHILTA		"DEVICE FATAL	" ERROR # 67		
6955	031760	104455								T	RAP	C#ERDF
6956	031762	000103									WORD	67
6957	031764	015311								•	MORD	EM64
6950	031766	021146				ESCAPE	CIR			•	MORD	ERR14
6960	031770	104410				Court	300			T	RAP	CIESCAPE
6961	031772										MORD	L10030
6962						RTS, CH	K FOR CTS - 1	40000				
6963	031774		003712		124:	JSR	R5, WRITEI	ASSERT	RIS			
6964 6965	032002	120000				VIAORB TTLOOP						
6966	032004	004537	003566			JSR	RS, READI	READ !	HODEM STATUS			
6967	032010	120017				VIAORA						
6968	032012	000000 132737	000010	022012	146:	. WORD	O ACTE 144	-CW 50	10 CTC - 1			
6969	032014	001004	000010	032012		BITB	OCTS.146	BR IF	OR CTS = 1			
6970 6971	VOEVEE	44244			REPORT	CTS NOT	SET	1011 21				
6972	032024					GEDF	EM65,ERR14					
6973	-								"DEVICE FATAL			CAEDOE
6974 6975	032024 032026	104455									RAP	C\$ERDF 68
6976	032030	015326									MORD	EM65
6977	032032	021146									WORD	ERR14
6978 6979	032034				154:							
6979	032034					ENDSUB				L10030:		
6980 6981	032034	104403									RAP	C#ESUB
6982	002004	201100			SEE IF	BOARD IS	S M8053 WITH H3	3254 INST	ALLED			
6982 6983	032036	005737	002470			TST	BROTYP	SEE IF	F M8053			
6984	032042	001002	023534		164.	BNE	176	BR IF		CODE		
6985	032044	000137	032526		16#:	JHP	A1	12KTh	THIS SECTION OF	CODE		

									SEQ 160
		LINE UNIT	DIAG3	MACY11	30A(1052	12-JU	L-84 11:12 PA	GE 161	
CVDMEC.	P11	12-JUL-84	10:56		TEST 8	MODEM	CONTROL SIGNAL	LOOPBACK TEST	
			000470	000000	174.	CHP	TCTCON AO	CEE TE HEORA THETALLED	
6986	032050	023727	002412	000000	174:	BNE	16#	SEE IF H3254 INSTALLED BR IF NOT, TO SKIP CODE	
6987	032056 032060	001372				BGNSUB	10+	ION IP NOT, TO SKIP CODE	
6988 6989 6990	032060					DUNSUD		T8.2:	
6989	032060	104402						TRAP	C#BSUB
6990	032060	104402			.THTT D	MV (TTI	LOOPBACK TO CL	EARED), CHK MODEM STATUS	C+0300
6991 6992 6993 6994 6995 6996 6997 6998	072045	004737	003352		ITHT! D	JSR	DC METCI D	PERFORM MASTER CLEAR TO INIT DMV11	
6992	032062	004737	003332			JSR	DS LIDITET	SET PORT B FOR OUTPUT MODE	
6332	032066	004537	003/15			VIADPB	M3 I MILLET	ISET FORT B FOR OUTFOIL HODE	
9334	032072 032074	120002				377			
6333	032074	000377	002713			JSR	DE LIDTTET	SET PORT A FOR INPUT HODE	
6330	032076	004537	003/12			VIADPA	M3 IMMTIET	ISET FORT A FOR ENFOT HODE	
6331	032102	120003				000			
6330	032104	004537	002712			JSR	DS UDITET	DISABLE TTLOOP	
9333	032106	120000	003175			VIAORB	HO, MILLEY	IDISHOLE ITCOOP	
7000	ASSITE	000000				000			
7001	032114	012737	000001	002886		MOV	A1 DECM M	SET REG NO. FOR PRINTOUT	
7002	025116	015131	000001	002330		HOV	AT ! MEGMOU!	ISET NEG NO. FOR PRINTOG	
7003 7004					CW ED	D DING (TE ETA) CARRE	R. MODEM RDY, CTS = 1, TEST MODE, = 0	
7005					1000 10		TL ETWY! CHANTE	M, NOCH NOT, CIS - 1, TEST NOCE, - V	
7006	032124	004537	003566			JSR	DS DEADT	READ HODEM STATUS	
7007	032130		003300			VIAORA	H21HEH02	INCID HODEN STATES	
7008	032132	000000			184:	. MORD	0		
7009	035135				207.		•		
7010	032134	023727	002470	000001		CHP	RROTYP. 41	IS V.35 THE SELECTED T/F ?	
7011	032142	001013	005410	000002		BNE	214	. NO. BR TO DO CHECK WITH RING	
7012	0357-6	001013				-		YES, REMOVE RING BEFORE CHECKING	
7013	032144	142737	255000	032132		BICB	ARTING I SPEED IRC	IS V.35 THE SELECTED I/F ? NO: BR TO DO CHECK WITH RING YES: REMOVE RING BEFORE CHECKING YOAT! UMAINT, 181 CLEAR UNNEEDED BITS	
7014	032152	123727		000150		CHPB	184 . CARTER!HD	MRDY!CTS ;CHK FOR CORRECT STATUS	
7015	032160	001427	405305	000230		BEQ	204	IBR IF STATUS CORRECT	
7016			000150	002324		HOV	ACARTER INDIANO	CTS.GDATA SET EXPECTED DATA	
7017	032170	000412	000230	005051		BR	194	10.0100 100	
7018	006210	000725						1 DO CHECK WITH RING	
7019	032172	142737	000023	032132	214:	BICB	ASPEED ! RCVDAT!	UMAINT, 184 CLEAR UNKEDED BITS	
7020	032200	123727	032132	000350		CHPB	184 . GRING! CARI	ER!MOMRDY!CTS ;CHK FOR CORRECT STATUS	
7021	032206	001414				BEQ	204	IBR IF STATUS CORRECT	
7022	032210	012737	000350	002324		MOV		DMRDY!CTS.GDATA SET EXPECTED DATA	
7023			••••						
7024					REPORT	"MODEN	STATUS INCORREC	T*	
7025	032216	013737	032132	002326	194:	MOV	184,80ATA	SET ACTUAL DATA	
7026	032224					GEDF	EM83,ERR11		
7027								*DEVICE FATAL * ERROR # 69	
7028	032224 032226 032236 032232 032234	104455						TRAP	
7029	032226	000105						. MOR	
7030	032230	U15262						. MOR	
7031	032232	015262 020540						. MOR	D ERR11
7032	032234					ESCAPE	SUB		
7033	032234	104410						TRAP	
7022 7023 7024 7025 7026 7027 7028 7029 7030 7031 7032 7033 7034 7035 7036 7037	032236	000266						, MOR	D L10031
7035					DE-ASS	ERT RTS.	CHK FOR CTS, CA	MRRIER = 0	
7036	032240	004537	003712		204:	JSR	RS, WRITEI	DE-ASSERT RTS	
7037	032244	120000				VIAORB			
7038	032246	000010				RTSND			
7039	032250	004537	003566			JSR	R5,READI	READ MODEM STATUS	
7040	032254	120017				VIAORA			
7041	032256	000000			22#:		0		

CVDMECO.		LINE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 8		L-84 11:12 PAG CONTROL SIGNAL		TEST			SEU 161
7042 7043 7044	032260 032266	132737	000010	032256	REPORT	BITB BEQ CTS NOT	OCTS,22# 24# CLEARED	ICHK FOR	R CTS - 0			
7045	032270					GEDF	EM84,ERR14		************	CD000 A 3		
7046 7047 7048 7049 7050	032270 032272 032274 032276 032300	104455 000106 015311 021146						•	"DEVICE FATAL"	ERRUR # /	TRAP . MORD . MORD . MORD	C#ERDF 70 EM84 ERR14
7051	032300					ESCAPE	SUB					
7052	032300	104410									TRAP	CHESCAPE
7053	032302	000222 132737	000100	032256	241:	BITB	OCARIER, 224	CHK FOR	CARRIER - 0		. WORD	L10031
7055	032312	001406				BEQ	261	BR IF				
7056	032314				REPORT	CARRIER GEDF	NOT CLEARED EM86, ERR14					
7058	035314					GCU	ELIOO, ENITA		"DEVICE FATAL"	ERROR # 7	1	
7052 7053 7054 7055 7056 7057 7058 7059 7060 7061 7062 7063	032314 032316 032320 032322	015342									TRAP .MORD .MORD .MORD	C#ERDF 71 EM86 ERR14
7063	032322					ESCAPE	SUB					
7064 7065	032324	104410									TRAP . WORD	C#ESCAPE L10031
7066	032320	000176			ASSERT	RTS. CH	K FOR CTS, CARRIE	R = 1			. MUNU	L10031
7066 7067 7068	032330	004537	003712		264:	JSR	R5, MRITEI	ASSERT	RTS			
7068	032334	120000				VIAORB						
7069 7070	032336	000000 004537	003566			JSR	R5.READI	READ MO	DEM STATUS			
7071	032340 032344 032346	120017	•••••			VIAORA	,	,				
7072	032346	000000	000010	070746	284:	. WORD	0	-	CTC - 1			
7073 7074	032350 032356	132737 001006	000010	032346		BNE	OCTS.284	BR IF	R CTS = 1			
7075		*******			REPORT	CTS NOT	SET					
7076	032360					GEDF	EM85,ERR14		HREVICE EATAL H	E0000 A 1	-	
7077 7078	032360	104455						•	"DEVICE FATAL"	ERRUR # /	TRAP	C\$ERDF
7079	032362	000110									. WORD	72
7080	032364	015326									. WORD	EM85 ERR14
7082	032370	021146				ESCAPE	SUB				. WUNU	EMMT4
7083	032370	104410									TRAP	CIESCAPE
7084	032372	000132	000100	A72746	704	0770	ACARTER 204	OW FOR	CAROTER - 1		. WORD	L10031
7086	032374	132737	000100	032346	304:	BITB	CARIER, 281	BR IF	R CARRIER - 1			
7087		002000			REPORT	CARRIER	NOT SET	1011 21				
7068	032404				•	GEDF	EM87,ERR14		*************	Et-000 - 3		
7089	032404	104455							"DEVICE FATAL"	ENKOK .	TRAP	C#ERDF
7080 7081 7082 7083 7084 7085 7086 7087 7088 7089 7090 7091 7092 7093 7094	032406	000111									. WORD	73
7092	032410	015363									. MORD	EM87
7093	032412	021146				ESCAPE	SIR				. WORD	ERR14
7095	032414	104410				COUNTE	555				TRAP	CIESCAPE
7096	032416				05 400		CLW EOD HODEN 5	EADY - 6			. WORD	L10031
7097					; DE - ASS	ERI DIR,	CHK FOR MODEM R	EAUT - 0				

CVDMEC.	DMV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052 TEST 8		L-84 11:12 PA CONTROL SIGNAL		ACK TEST			SEQ 162
7098 7099	032424	120000	003712		324:	JSR VIAORB DTR	R5, WRITEI	;DE-A	SSERT DTR			
7100 7101 7102 7103 7104 7105	032426 032430 032434	004537	003566			JSR VIAORA	R5,READI	READ	HODEM STATUS			
7103	032436	000000			344:	. WORD	0					
7104	032440	132737	000040	032436		BITB	MOMRDY, 34#		FOR MODEM READY	- 0		
7105	032446	001406			DEDOOT	BEQ B	364 READY NOT CLEARE		F YES			
7106 7107	032450				REPORT	GEDF	EM88, ERR14	.0				
7108	032430					GEDI	CHOO! CHUZY		"DEVICE FATAL	" ERROR .	74	
7108 7109	032450	104455						•			TRAP	C#ERDF
7110	032452	000112									. WORD	74
7111	032454	015403									. WORD	EM88
7112	032456	021146				-	~~				. WORD	ERR14
7112 7113 7114 7115	032460	100010				ESCAPE	208				TRAP	CAECCADE
7115	032462	104410									. WORD	C\$ESCAPE L10031
7116	035405	3-0000			ASSERT	DTR. CH	K FOR HODEH REA	MY - 1			. wond	L10031 .
7116 7117	032464	004537	003712		364:	JSR	RS, WRITEI		RT DTR			
7118	032470	120000				VIAORB						
7119	032472	000000				000						
7120	032474	004537	003566			JSR	R5, READI	READ	MODEM STATUS			
7121	032500	120017			704.	VIAORA	0					
7128	032504	132737	000040	032502	384:	BITB	OMDHRDY, 384	·CHK	FOR MODEM READY	- 1		
7124	032512	001004	000010	OJEJOE		BNE	404		F YES	•		
7118 7119 7120 7121 7122 7123 7124 7125 7126 7127 7126 7127 7128 7129 7130					REPORT		EADY NOT SET					
7126	032514					GEDF	EM89, ERR14					
7127									"DEVICE FATAL	" ERROR #		
7128	032514	104455									TRAP	C\$ERDF
7129	032516	000113									. WORD	75 EM89
7131	032522	021146									WORD	ERR14
7132	032524	022240			404:							Counce
7133	032524					ENDSUB						
7134	032524									L10031:		
7135	032524	104403									TRAP	C\$ESUB
7136	032526				A1:							
7137	032526				ENDIST					1 10027		
7133 7134 7135 7136 7137 7138 7139	032526	104401								L10027:	TRAP	C\$ETST
1	302320	201101										012.01

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CVDMECO DMV11 LINE UNIT DIAG3
                              MACY11 30A(1052) 12-JUL-84 11:12 PAGE 164
                                      TEST 9 -- DOCMP MESSAGE TEST
             12-JUL-84 10:56
CVDMEC.P11
                                      SBITL TEST 9 -- DOCMP MESSAGE TEST
 7140
 7141
                                      7142
 7143
                                              TEST 9 -- DOCMP MESSAGE TEST
 7144
                                      ..
 7145
                                         THIS TEST WILL USE XLB IF IT IS ENABLED -- OTHERWISE TTL LOOPBACK
 7146
                                         WILL BE UTILIZED. THIS ASSURES THAT IT CAN ALWAYS BE RUN AS A GENERAL "RINGOUT" OF THE M8053.
 7147
 7148
 7149
                                         INITIALIZATION: SCP MODE, CRC-16, IDLE = 0, SYNC (S/AR) = 226 OCT. (96 HEX.), RXCL & TXCL = 0 (CHAR. LENGTH = 8).
 7150
 7151
 7152
                                          THE FOLLOWING SAMPLE DOCHP MESSAGE IS TRANSMITTED & RECEIVED AND ALL
 7153
                                          DATA AND CRC CHARACTERS ARE CHECKED FOR ERRORS:
 7154
 7155
                                      1.0
                                                    ----- HEADER ----- --- DATA (PATTERN K) -----
 7156
                                         SYNC SYNC 201 000 075 003 002 001 CRC CRC 000 377 ... 252 000 CRC CRC
 7157
 7158
                                         THE ATTEMPT HERE IS TO PROVIDE A TEST JUST BELOW THE LEVEL OF THE
 7159
 7160
                                          FUNCTIONAL DIAGNOSTIC. THE USYRT WILL BE RESPONSIBLE FOR ALL CRC
                                          GENERATION AND VERIFICATION BUT THE CRC'S WILL ALSO BE VERIFIED BY
 7161
                                         SOFTWARE.
 7162
 7163
                                      :
 7164
                                      7165
                                             BGNTST
 7166
 7167
       032530
                                                                     INIT COUNT (TEXT TRANSMITTED 3 TIMES)
 7168 032530
               012737 000003 002526
                                             MOV
                                                     #3, REGO
 7169 032536
               004737
                                                     PC, INIDHV
                                                                     INIT DMV-11. ENTER MAINT LOOP
                      005376
                                              JSR
                                              BIC
 7170 032542
               042737
                      001000
                              032604
                                                     MOLOOP,1#
 7171 032550
               023727
                              000000
                                                                     180ARD TYPE - M8064 ?
                      002470
                                              CHP
                                                     BRDTYP. 40
                                              BEQ
                                                                     1 YES: SPECIFY TTLOOP (NOT XLB)
 7172 032556
               001407
                                                     TSTCON, 44
 7173 032560
                                                                     IS A LOOPBACK CONNECTOR/CABLE SPECIFIED ?
               023727
                      002472 000004
 7174 032566
                                                                     BR IF NO
               001403
                                              BEQ
                                                     MOLOOP.18
                                              BIS
                                                                     : YES: SPECIFY NO TTLOOP (INITRN)
 7175
       032570
               052737
                      001000 032604
 7176
 7177
       032576
               004537
                                                     RS. INITRN
                                                                     LOAD 1 SOM, CLK TX UNTIL ACTIVE
                      007234
                                      21:
               065626
       032602
                                              DOCHP!STRIPS!IDLES!CRC16!SYNCH ;SET DOCHP, STRIP, IDLE, CRC-16, SYNCH=226
 7178
                                                                     USE 8 BIT CHARS
 7179
       032604
               000000
                                      18:
       032606
 7180
               103003
                                                                     BR IF NO ERROR
                                              ERROR
 7181
       032610
                                                                     REPORT STACKED ERROR
 7182
       032610
                                                                                                            C$ERROR
                                                                                                    TRAP
               104460
 7183
       032612
                                             ESCAPE TST
                                                                     SKIP TO END OF TEST
                                                                                                            C$ESCAPE
                                                                                                    TRAP
 7184
       032612
               104410
                                                                                                           L10032-.
 7185
       032614
               001032
                                                                                                    . WORD
 7186
 7187
       032616
                                                     R5.TXCTRL
                                                                     SET TSOM, TX 1ST SYNCH
               004537 010250
       032622
                                              TSOM
 7188
               000001
       032624
 7189
               000007
                                              7.
                                              JSR
 7190 032626
               004537
                      010250
                                                     R5.TXCTRL
                                                                     1TX 2ND SYNCH
 7191
       032632
               000001
                                              TSOM
               000010
 7192
       032634
 7193
       032636
                                              JSR
                                                     R5.TXCTRL
               004537
                      010250
                                                                     :CLEAR TSOM
 7194
       032642
               000000
                                              000
       032644
 7195
               000000
```

CVDMEC.		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11 30A(1052 TEST 9		L-84 11:12 PAGE MESSAGE TEST	165		3c4 10-
7196 7197	032646 032652	004537 000201	010136		JSR 201	R5.TXCHAR	:LOAD 201(HEADR1), TX 3RD SYNCH		
7198 7199 7200	032652 032654 032656 032660 032662	000010			8. BCC ERROR	.+8.	#BR IF NO ERROR		
7201	032660	104460			ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
7203 7204	032662 032664	104410 000762						TRAP . WORD	C\$ESCAPE L10032
7201 7202 7203 7204 7205 7206 7207	032666	000000	010136		JSR 000	R5,TXCHAR	;LOAD OOO(HEADR2), TX HEADR1		
7208 7209 7210	032674 032676 032700	103003			8. BCC ERROR	8.	BR IF NO ERROR REPORT STACKED ERROR		
7211	032702	104460			ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
7213 7214	032702 032704	104410			200.4			TRAP .WORD	C#ESCAPE L10032
7215 7216 7217	032706 032712	000075	010136		JSR 075	R5,TXCHAR	:LOAD 075(HEADR3), TX HEADR2		
7218 7219 7220 7221 7222 7223 7224 7225 7226 7227 7228	032714 032716 032720	103003			8. BCC ERROR	. +8.	BR IF NO ERROR REPORT STACKED ERROR		
7221 7222	032720	104460			ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
7223 7224	032722 032724	104410						TRAP . WORD	C#ESCAPE L10032
7226 7227	032726 032732	000003	010136		JSR 003	R5,TXCHAR	:LOAD 003(HEADR4), TX HEADR3		
7228 7229 7230	032734 032736 032740	103003			8. BCC ERROR	.+8.	BR IF NO ERROR REPORT STACKED ERROR		
7231 7232	032740	104460			ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
7233 7234	032742 032744	104410						TRAP . WORD	C\$ESCAPE L10032
7235 7236 7237 7238	032746 032752	000002	010136		JSR 002	R5,TXCHAR	;LOAD 002(HEADR5)		
7238 7239 7240	032754 032756 032760	103003			O BCC ERROR	8.	IBR IF NO ERROR REPORT STACKED ERROR		
7241 7242	032760	104460			ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
7243 7244 7245	032762 032764	104410						TRAP . WORD	C#ESCAPE L10032
7246	032766		011624		JSR	R5,RCV1ST	CLOCK AND RCV 201		
7247 7248 7249	032772 032774 032776	103003			BCC ERROR	.+8.	BR IF NO ERROR REPORT STACKED ERROR	7040	CAECOCO
7250 7251	032776				ESCAPE	TST	ISKIP TO END OF TEST	TRAP	C\$ERROR
The Court of the									

C) (C) (C)	DARKS 5	I THE INTT	DTACK	MACVII	30A(1052	1 12-1	L-84 11:12 PAGE	166		SEQ 165
CYDHEC.	P11	LINE UNIT 12-JUL-84	10:56	100111	TEST 9	DDCMP	MESSAGE TEST	100		
7252	033000	104410						T	RAP	C#ESCAPE
7253 7254 7255 7256 7257 7258 7259	033002								WORD	L10032
7254	033004	004537	010350		-	JSR	R5.RXCHAR	:READ & CHK 201(HEADR1), RCV HEAD	82	
7256	033010		020000			201				
7257	033012	000000				0				
7258	033014	000010	,			8.		.00 TE NO E0000		
7259	033016	103003				BCC ERROR	.+8.	BR IF NO ERROR REPORT STACKED ERROR		
7261	033020	104460							RAP	C\$ERROR
7262	033022					ESCAPE	TST	SKIP TO END OF TEST		
7263	033022	104410							RAP	CIESCAPE
7260 7261 7262 7263 7264 7265 7266 7267	033024	000622							WORD	L10032
7266	033026	004537	010136			JSR	R5, TXCHAR	:LOAD 001(HEADR6)		
7267	033032	000001				001				
1200	033034	000000				0		- DO TE NO FROM		
7269 7270	033036 033040	103003				BCC ERROR	.+8.	BR IF NO ERROR REPORT STACKED ERROR		
7271	033040	104460				Ennon			RAP	C#ERROR
7272	033042					ESCAPE	TST	SKIP TO END OF TEST		
7273	033042								RAP	CIESCAPE
7275	033044	000602							WORD	L10032
7274 7275 7276 7277 7278 7279 7280 7281 7282 7283	033046	004537	010350			JSR	R5,RXCHAR	:READ & CHK 000(HEADR2). RCV HEAD	R3	
7277	033052	000000				000				*
7278	033054	000000				0				
7279	033056	103003				8. BCC	.+8.	BR IF NO ERROR		
7281	033060 033062 033062 033064	103003				ERROR	. ***.	REPORT STACKED ERROR		
7282	033062	104460							RAP	C\$ERROR
7283	033064					ESCAPE	TST	SKIP TO END OF TEST		
7284 7285	033064	104410							WORD	C#ESCAPE L10032
7286	033000	000360							MUNU	L10032
7267	033070	004537	010250			JSR	R5,TXCTRL	SET TEOM		
7288	033074	000002				TEOH		(STARTS CRC-16 CHARACTER)		
7289	033076 033100	000000	A1A75A			O	R5.RXCHAR	READ & CHK 075(HEADRS), RCV HEAD	D4	
7291	033104	000075	010350			JSR 075	NJ, NACIONA	THEND & CHR O'S(HENDRS), RCV HEND	~~	
7292	033106	000000	,			0				
7286 7287 7288 7289 7290 7291 7292 7293 7294 7295 7296	033110	000010				8.		00 75 40 5000		
7294	033112 033114	103003				BCC ERROR	.+8.	BR IF NO ERROR REPORT STACKED ERROR		
7296	033114	104460				ENNON			RAP	C\$ERROR
7297 7298	033116					ESCAPE	TST	SKIP TO END OF TEST		
7298	033116								RAP	C\$ESCAPE
7300	033120	000526							WORD	L10032
7299 7300 7301 7302 7303	033122	004537	010350			JSR	R5,RXCHAR	:READ & CHK 003(HEADR4), RCV HEAD	R5	
7302	033126	000003	10.0020			003				
7303	033130					0				
7304 7305	033132 033134					8. BCC	.+8.	BR IF NO ERROR		
7306	033136					ERROR		REPORT STACKED ERROR		
7307	033136								RAP	C\$ERROR

CVDMEC	0 DMV11	LINE UNIT	DIAG3 10:56	MACY11	30A(1052 TEST 9	DDCMP	-84 11:12 PAGE MESSAGE TEST	167		SEQ 166
7308 7309	033140 033140	104410				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ESCAPE
7310	033142	000504							. WORD	L10032
7311 7312 7313	033144	004537	010250			JSR	R5.TXCTRL	:CLEAR TEOM		
7313	033150		010530			000	NO, THO THE	, occini i con		
7314	033152					0				
7315			*****		1		DE TYCHAD	:LOAD OOO(DATA1)		
7316	033154		010136			JSR 000	R5,TXCHAR	ICOND GOO(DATAI)		
7318	033162					0				
7319	033164	103003				BCC		PR IF NO ERROR		
7320	033166					ERROR		HEPORT STACKED ERROR	TRAP	C450000
7321	033166	104460				ESCAPE	TST	SKIP TO END OF TEST	IRAP	C#ERROR
7323	033170					COCIAC		,012, 10 510 61 1551	TRAP	C#ESCAPE
7324	033172	000454							. WORD	L10032
7314 7315 7316 7317 7318 7319 7321 7321 7322 7323 7324 7325 7326 7327 7326 7327			010750			100	DE DYCHAD	DEAD & CHY AND HEADDEN DOWN	EADDS	
7320	033174	000002	010350			JSR 002	R5,RXCHAR	READ & CHK 002(HEADRS), RCV H	ENUNG	
7328	033202	000000				0				
7329	033204	000010				8.				
7330	033206	103003				BCC	.+8.	BR IF NO ERROR REPORT STACKED ERROR		
7331	033210 033210	104460				ERROR		THEFORT STACKED ERROR	TRAP	C#ERROR
7333	033212	201100				ESCAPE	TST	SKIP TO END OF TEST		
7334	033212	2 104410							TRAP	C\$ESCAPE
7330 7331 7332 7333 7334 7336 7337 7338 7339	033214	000432							. WORD	L10032
7337	033216	004537	010136			JSR	R5, TXCHAR	:LOAD 377(DATA2)		
7338	033222	000377				377				
7339	033224	000000				0		. DD TE NO EDDOD		
7340 7341	033216 033226 033226 033236	103003				BCC ERROR	.+8.	;BR IF NO ERROR ;REPORT STACKED ERROR		
7342	033230	104460							TRAP	C\$ERROR
7343	033232	2				ESCAPE	TST	SKIP TO END OF TEST	7040	CAECCADE
7344 7345	033232 033234	000412							TRAP . WORD	C\$ESCAPE L10032
7346	033234	000415							. wono	£2005£ .
7346 7347	033236	004537	010350			JSR		;READ/CHK 001(HEADR6), "RCV" F	IRST CRC	BYTE
7348 7349	033242	100001				RXERR!O	01			
7350	033244	000001				RERCHK 8.				
7351	033250	103003				BCC	.+8.	BR IF NO ERROR		
7352	03325 03325 03325	2				ERROR		REPORT STACKED ERROR		0450000
7353	03325	104460				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
7355	033254 033254	104410				ESCAPE	131	ISKIP TO END OF TEST	TRAP	C\$ESCAPE
7350 7351 7352 7353 7354 7355 7356 7357 7358 7359	033256	000370							. WORD	L10032
7357										
7358	033260	0 004537	010136			JSR 376	R5, TXCHAR	;LOAD 376(DATA3)		
7360	033264 033266	6 000000				0				
7361	033270	103003				BCC	.+8.	BR IF NO ERROR		
7362	033272	2				ERROR		REPORT STACKED ERROR	TRAP	C\$ERROR
7363	033272	2 104460							INAP	CAEMMON

	CVDMECO CVDMEC.	DHV1i	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052) TEST 9	12-JU	L-84 11:12 PAGE MESSAGE TEST	168		3E 4 107
	7364 7365 7366	033274 033274 033276	104410				ESCAPE	TST	SKIP TO END OF TEST	TRAP . WORD	C#ESCAPE L10032
	7367	033210									
	7368 7369	033300		010350			JSR	R5,RXCHAR	READ & CHK 1ST CRC BYTE, RCV SI	ECOND CR	C BYTE
ı	7369	033304	000043				043				
	7370	033310					8.				
ı	7371 7372 7373	033312	103003				BCC	. +8.*	BR IF NO ERROR		
l	7373	033314					ERROR		REPORT STACKED ERROR	7040	C450000
١	7374 7375	033314	104460				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
ı	7376	033316	104410				COUNT	131	JAMES TO END OF TEST	TRAP	CIESCAPE
ı	7377	033320	000326							. WORD	1.10032
ı	7378			*****			100		1000 775/007043		
ı	7379 7380	033322	004537	010136			JSR 375	R5,TXCHAR	;LOAD 375(DATA4)		
ı	7381	033326 033330 033332 033334 033334	000000				0				
ı	7382	033332	103003				BCC	. +8.	BR IF NO ERROR		
l	7383	033334					ERROR		REPORT STACKED ERROR	7040	C450000
ı	7361 7362 7363 7384 7385	033334	104460				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
ı	7386	033336	104410				COUNT	131	13/12/ 10 2/10 0/ 123/	TRAP	C\$ESCAPE
l	7386 7387	033340								. WORD	L10032
ı	7388 7389			010750			100	DE DYCHAD	DEAD & CHE CECOND COC DATE - DC	DATAS	
١	7390	033342		010350			JSR 035	R5,RXCHAR	READ & CHK SECOND CRC BYTE; RC	MINT	
l	7391	033350	000000				0				
l	7392 7393	033352	000010				8.				
ı	7393	033354					BCC	. +8.	IBR IF NO ERROR		
l	7394 7395	033356 033356	104460				ERROR		REPORT STACKED ERROR	TRAP	C#ERROR
١	7396	033360	104400				ESCAPE	TST	SKIP TO END OF TEST	******	CVERMON
ı	7397	033360	104410							TRAP	CIESCAPE
l	7396	033362	000264							. WORD	L10032
l	7399 7400										
١	7401					TRANS	IT THE	BULK OF DATA OUT	OF TABLE "PATK"		
l	7402										
l	7403	033364		003012			MOV	OPATK,R2	ISET UP TABLE POINTER		
l	7404 7405	033370		033426	033406	54:	MOVB	(R2)+,20# 3(R2),10#	ISET UP EXPECTED RX CHARACTER		
i	7406	033314	110231	000003	033400		11010	3(HE)1204	13ET OF THIRDIET GIVENOTER		
١	7407	033402		010136			JSR	R5, TXCHAR	ILOAD A CHARACTER		
ı	7406	033406				104:	000		144 HOLE FOR NEXT TX CHARACTER		
l	7409	033410	000000				BCC	.+8.	IBR IF NO ERROR		
1	7410 7411	033412	103003				ERROR		REPORT STACKED ERROR		
1	7412	033414	104460							TRAP	C\$ERROR
1	7413	033416					ESCAPE	TST	ISKIP TO END OF TEST	TOAD	CAECCADE
	7414	033416								TRAP . WORD	C\$ESCAPE L10032
	7415 7416	033420	000226							· WOND	CIOCOE
	7417	033422	004537	010350			JSR	R5,RXCHAR	ICLK/RECEIVE/CHECK PREVIOUS CHA	RACTER	
	7418	033426	000000			204:	000		*** HOLE FOR EXPECTED CHARACTER		
	7419	033430	000000				0				

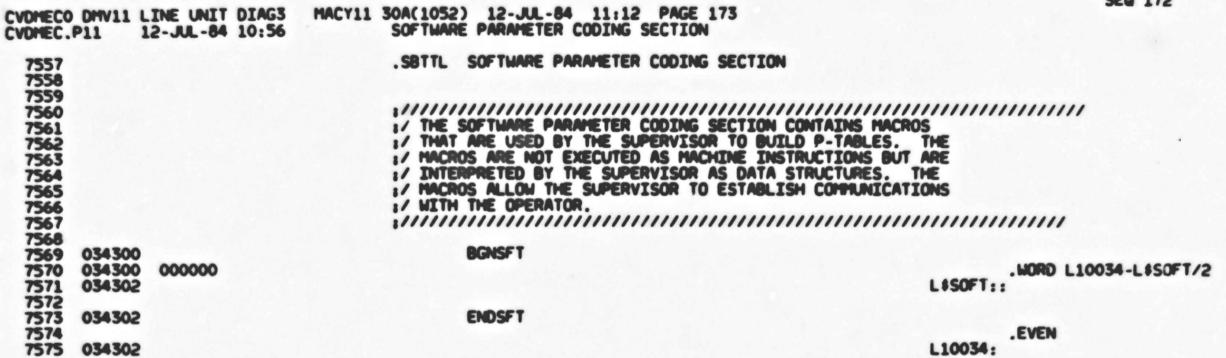
CVDMECO	DMV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052 TEST 9	DOCHP	-84 11:12 PA	GE 169		324 200
7420 7421 7422	033432 033434 033436	103003				8. BCC ERROR	. +8.	BR IF NO ERROR REPORT STACKED ERROR		
7422 7423	033436	104460				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C#ERROR
7424 7425 7426	033440 033440 033442	104410				ESUME	131	13KIP TO END OF TEST	TRAP . MORD	C#ESCAPE L10032
7427 7428 7429	033444		003027			CHP	#PATK+13.,R2	CHECK FOR 14TH CHARACTER OF THE	ABLE	
7430 7431 7432	033452 033456		010250		1	JSR TEOM	RS, TXCTRL	SET TEOM		
7433 7434 7435	033460 033462 033466	000000 004537 000200	010350			O JSR 200	R5,RXCHAR	;READ/CHK 200(DATA13), RCV 125	(DATA14)	
7436 7437 7438	033470 033472 033474	000000 000010 103003				8. BCC	. •8.	BR IF NO ERROR		
7439 7440 7441	033476 033476 033500	104460				ERROR	TST	REPORT STACKED ERROR SKIP TO END OF TEST	TRAP	C#ERROR
7442 7443 7444	033500 033502	104410							TRAP . MORD	CIESCAPE L10032
7445 7446	033504 033510	000005	010250			TEOM	RS.TXCTRL	SET TEOM		
7447 7448 7449 7450	033512 033514 033520 033522	004537	010350			0 JSR 125	RS,RXCHAR	;READ/CHK 125(DATA14), RCV 252	(DATA15)	
7451 7452 7453	033522 033524 033526 033530	103003				8. BCC ERROR	.+8.	:BR IF NO ERROR :REPORT STACKED ERROR		
7454 7455	033530 033532	104460				ESCAPE	TST	SKIP TO END OF TEST	TRAP	C\$ERROR
7456 7457	033532 033534	104410							TRAP . WORD	C#ESCAPE L10032
7458 7459 7460 7461	033536 033542 033544 033546 033550	000252	010350			JSR 252 0 8.	R5,RXCHAR	;READ/CHK 252(DATA15), RCV 000	(DATA16)	
7462 7463 7464 7465	033550 033552 033552	103003				BCC ERROR	.+8.	# IF NO ERROR # REPORT STACKED ERROR	TRAP	C\$ERROR
7466 7467 7468	033554 033554 033556	104410				ESCAPE	TST	SKIP TO END OF TEST	TRAP . WORD	C#ESCAPE L10032
7469 7470 7471	033560 033564	004537	010350			RXERR! OC	R5,RXCHAR	;READ/CHK 000(DATA16), RCV FIR		
7472 7473 7474	033566 033570 033572	000001				RERCHK 8. BCC	. +8.	BR IF NO ERROR		
7475	033574					ERROR		REPORT STACKED ERROR		

CVDMECO CVDMEC.	DMV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052 TEST 9	DOCMP	HESSAGE TEST	170				
7476	033574					500005	***	CVTD TO END OF	TECT		TRAP	C#ERROR
7477 7478	033576					ESCAPE	151	SKIP TO END OF	1531		TRAP	CIESCAPE
7479	033600										. WORD	L10032
7480	033602	004537	010350			JSR	R5.RXCHAR	READ & CHK 1ST	CRC BYTE	. RCV	SECOND CR	C BYTE
7481 7482	033606	000231				231						
7483 7484	033610					8.						
7485	033614	103003				BCC ERROR	.+8.	BR IF NO ERROR	FRRCR			
7486 7487	033616	104460									TRAP	C\$ERROR
7488	033620					ESCAPE	TST	SKIP TO END OF	TEST		TRAP	CIESCAPE
7489 7490	033620										. WORD	L10032
7491 7492	033624	004537	010350			JSR	R5.RXCHAR	READ & CHK 2ND	CRC BYTE	. RCV	1ST SYNCH	
7493	033630	000176	010330			176	No final de la companya de la compan					
7494 7495	033634					8.						
7496	033636	103003				BCC	.+8.	BR IF NO ERROR	50000			
7497 7498	033640					ERROR		REPORT STACKED			TRAP	C#ERROR
7499	033642	2				ESCAPE	TST	SKIP TO END OF	TEST		TRAP	C\$ESCAPE
7500 7501	033644										. WORD	L10032
7502	033646	5			ENDTST					L10032		
7503 7504	033646									C1003E	TRAP	C\$ETST

VONECO DI	HV11 L	INE UNIT		CY11 30A(1052)	12-JU	L-84 11:12 PAGE 171 TER CODING SECTION			SEQ 170
VONEC.P1	1 1	2-JUL-84	10:36						
7505 7506				.SBTTL	HARDHAR	E PARAMETER CODING SECTION			
7507 7508 7509 7510				1/////	,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11111	111111
7510				I/ THE	ARCHARE ARE USE	PARAMETER CODING SECTION CONTAINS H D BY THE SUPERVISOR TO BUILD P-TABLE			
7511 7512 7513					OS ARE N	OT EXECUTED AS MACHINE INSTRUCTIONS BY THE SUPERVISOR AS DATA STRUCTURES	BUT ARE . THE		
7514 7515				I/ MACRO	THE OPE	THE SUPERVISOR TO ESTABLISH COMMUNI	CATIONS		
7516				111111	1111111		///////////////////////////////////////	11111	11111
7517 7518 0	33650				BGNHRD				
7519 0	33650 33652	000027					LSHARD:	DRD L	.10033-L (HARD/
7521						4000CC A A 1400CA 177774 VEC			
7522 0	33652	000031			GPRMA	ADDRES,0,0,160020,177776,YES	.W	ORD	TACODE
7524 0	33652 33654	033730						ORD	ADDRES
7525 0	33656	160020						ORD	TALOLIM
7526 0	33660 33662 33662 33664 33666	177776			00044	WESTON 2 A A 474 VEC		ORD	THILIM
7527 0	33662	*****			GPRMA	VECTOR, 2, 0, 0, 674, YES	u	ORD	TICODE
7520 U	33002	001031 033756						ORD	VECTOR
7530 0	33666	000000					. M	ORD	TALOLIM
7531 0	33670	000674					, W	ORD	THILIM
7532 0	33672				GPRMD	PRIRTY,4,0,7000,4,7,YES			T40005
7533 0	33672	002032						ORD	T#CODE PRIRTY
7534 0	33674	034007						ORD ORD	7000
	33676 33700	007000					· ·	ORD	TALOLIM
	33702	000007					.u	ORD	THILIM
7538 0	33704	000001			GPRHD	BOTY.M.12.0.7.0.2.YES			
7539 0	33704	005032					. W	ORD	T#CODE
7540 0	33706	034040						ORD	BOTY.M
7541 0	33710	000007						ORD ORD ORD ORD ORD	TALOLIM
7542 0	33712	000000						ORD	THILIM
7540 0 7541 0 7542 0 7543 0 7544 0	33714	000002			GPRMD	TCON.M.14.0.7.0.4.YES		UNU	1446624
7545 0	33716 33716	006032			GPRITU	1004.11,14,0,7,0,4,763	. W	ORD	T#CODE
7546 0	33720	034123					. W	ORD	TCON.H
7547 0	33722	000007					. W	ORD	7
7546 0 7547 0 7548 0	33724	000000						ORD	TILOLIM
7549 0	33726	000004						ORD	TSHILIM
7550 7551 0	33730				ENDHRD				
7552	33130							VEN	
	33730						L10033:		
7554				40 707	DEV				
7555				.NLIST	BEX				

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CVDMECO DMV11 LINE UNIT DIAGS MACY11 30A(1052) 12-JUL-84 11:12 PAGE 172 CVDMEC.P11 12-JUL-84 10:56 HARDWARE PARAMETER CODING SECTION
              12-JUL-84 10:56
CVDMEC.P11
         033730 042504 044526 042503 ADDRES: .ASCIZ /DEVICE CSR ADDRESS: / 033756 042504 044526 042503 VECTOR: .ASCIZ /DEVICE VECTOR ADDRESS: / 034007 104 053105 041511 PRIRTY: .ASCIZ /DEVICE PRIORITY LEVEL: /
                                                047502
                                       020104
                             051101
         034040
                       124
                                       040516
         034123
                             051125
                                       031063
         034160 030050
                             044075
         034246 031440 053075 031456
                                                 .LIST
                                                           BEX
                                                 .EVEN
  7556
```

SEQ 172



CVDMEC		LINE UNIT DI 12-JUL-84 10	30A(1052)) 12-JUL-84 11:12 PAGE 174 PATCH AREA FOR DEBUG ******	
7576			.SBTTL	***** PATCH AREA FOR DEBUG *****	
7577 7578	034302		PATCH:		
7579		034502		.=.+200	
7580	034502			NOP NOP	
7581 7582	034504 034506			NOP	
7583	034300	000540	; ******	************************	
7584					
7585			.SBTTL	"ENDMOD" STATEMENT	
7586 7587	034510			ENDMOD	
7588	034310				
7589				"LASTAD" STATEMENT & END OF PROGRAM	
7590	034510			LASTAD	
7591	074510	000000		.EVEN .WORD	•
7592 7593	034510 034512			WORD	0
7594	034514		L#LAST:		
7595					
7596		000001	.END		

VDMEC.	DMV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052 CROSS R) 12-JU EFERENCE								SEQ 1	
DORES	000160		12690 7524	75550											
DR =	000020	6	1201 0 4538	45730											
TIH.Q	023214		4562	45674											
D.OK	023210		4562 13254	43014											
PA -	100000		13340												
PAD =			959												
133218-	032526		6985	71360											
ADDAT	002366		17200												
DATA	002326		17030	2356+	2359	2362	2636+	2739+	2740+	3507+	3508+	3525+	3526+	3919	3968
	****		4013	4084	4146	4805+	4806+	4888+	5013+	5042+	5071+	5100+	5129+	5171+	52004
			6932+	7025+											
DRATE	002474		17670	4506+											
M.YTO	034040		7540	75550											
ITO .		G	11740	1219	1231	1273	1282	1301	1330	1356	1372	1390	1406	1548	1562
			1584	1637	2770	2815	2860	2905	2950	2993	3040	3107	4472		
ITOO -	000001		11630	1174											
IT01 -	000002		11620	1173											
ITO2 -			11610	1172											
IT03 -	000010		11600	1171											
ITO4 -	000020		11590	1170											
IT05 -	000040		11580	1169											
ITO6 -	000100	6	11570	1168											
IT07 -			11560	1167											
TTOS -			11550	1166											
	001000	6	11540	1165	1200	1220	1356	1371	1389	1405	1547	1561	1502	1636	3064
IT1 -			11530	1272	1300 1306	1330 1341	1342	1343	1309	1403	1341	1301	1583	1030	3004
	004000		11520	1277	1305	1338	1345	1343							
IT12 -			11510	1337	1303	2000									
IT13 -			11500	1336	1646										
IT14 -			11490	1335	1639	1645									
	100000		11480	1276	1304	1334	1633	1644	5830	6090	6315				
IT2 -	000004	G	11720	1271	1299	1330	1356	1370	1388	1404	1536	1561	1582		
IT3 -	000010	G	11710	1271 1270	1298	1329	1356 1355 1354 1367 1353	1369	1387	1403	1536	1561	1581		
IT4 =	000020	G	11700	1218	1269	1328	1354	1368	1386	1402	1536	1560	1580		
ITS -	000040	G	11690	1218 1269 1230 1229 1642 1280 1279	1269 1327	1353	1367	1385	1401	1531	1559	1579	3649		
116 -	000100	G	11680	1230	1269 1237	1326	1353	1366	1384 1353	1400	1521 1383	1559	1578	3669	
IT7 -	000500	G	11670	1229	1237	1268	1297 3658	1325	1353	1365	1383	1399	1521	1559	1572
770 -	000400	-	1594	1642	3486	3487	3638								
ITS -	000400		11664	1280	1306	1339	1340	1341	1342						
IT9 =	001000		11024	1219	1307	1340	1341	1640							
ROTYP	000400	6	1205¢	2267	3278	3286	3296	4504+	5825	6085	6310	6530	6715	6983	7010
MUTTE	002470		7171	3267	3210	3200	3270	43044	3053	0003	6310	6330	0113	0303	1010
SELO	002416		17344	2208	4545	4551									
SEL1	002420		17374	2298 2094*	2299	4332									
SEL10	002436		17340 17370 17470	2306	66.,										
SEL11	002440		17490	2306 2307 2308 2309 2310											
SEL12	002442		17500	2308											
SEL13	002444		17520	2309											
SEL14	002446		17520 17530	2310											
SEL15	002450		17550	2311											
SEL16	002452		17560	2312											
SEL17	002454		17584	2313	4494										

								G14	1						
CVDMECO CVDMEC.	DHV11 P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11			L-84 11 TABLE -							SEQ 1	.75
BSEL2 BSEL3 BSEL4	002426 002426 002426		17380 17400 17410	2101 2301 2302	2137•	2144	2184+	2191	2256+	2263	2300	4862+	4868		
BSEL4 BSEL5 BSEL6	00243		17430 17440 5008	2303 2159 5024 5211 2305	2304 5037 5224	4883 5053	4890 5066	4903 5082	4916 5095	4929 5111	4943 5124	4956 5140	4969 5153	4982 5166	4995 5182
BSEL7 BSR0 BSR1 BSR10 BSR11 BSR12 BSR13 BSR14 BSR15 BSR16 BSR17 BSR2 BSR3 BSR4 BSR5 BSR6	002434 002204 002224 002236 002236 002236 002236 002236 002216 002216		5195 17464 16704 16724 16854 16864 16864 16894 16904 16914 16924 16744 16764 16764 16804 16824	2298° 2299° 2306° 2308° 2309° 2311° 2312° 2313° 2300° 2301° 2302° 2303° 2304°	5013 4168 4167 4202 4201 4200 4199 4219 4218 4217 4216 4166 4165 4185 4184 4183	5042	5071	5100	5129	5171	5200				
BSR7 CARIER= CA1CTL= CA2CTL= CB1CTL= CB2CTL= CHKTSO	002220 000100 000001 000020 000340 007074		1684e 1400e 1562e 1561e 1560e 1559e 3102e 1725e	2305• 6929	4182 6931	7014	7016	7020	7022	7054	7085				
CIPTYP CICLPBK CIRRACT CIRDA CIRCR CIRCSA	002400 00753; 005654 006454 006314		32460 28100 29000 29680 29450	4421• 4774 3651 3660	6902 3705 3671	3732 3708	3764 3724	3775 3729							
CKSEOM CKTACT CKTBMT CKUSTS CRCOS =	006614 005514 006014 005416		27650 28550 27300 13390	3711 3217 3200 3183 6722	3383 3214 4836	3435 3392	3761 3399	3772 3440	3447	4850					
CRC16 = CTS = C+AUTO= C+BRK =	001400 000010 000053 000061		1340e 1403e 959e 959e 959e	4831 6929 4617 4571	5833 6931	7178 6950	6969	7014	7016	7020	7022	7042	7073		
C#BSEG= C#BSUB= C#CLCK= C#CLCK=	000004 00004 00006		9594 9594 9594 9594 9594	6911 4589	6990										
C+CLOS= C+CLP1= C+CVEC= C+DCLN=	000035 000006 000036 000044		9594 9594 9594 9594	4560											
C#000U=			9594	4565											

							· UT	+						
VDMECO D	MV11 LINE UNIT	DIAG3	MACY11					E 178					SEQ 1	76
VOMEC.PI	12-JUL-84	10:56		CRUSS R	REFERENCE	TABLE -	- USER S	THEOLS						
*DRPT= C		9594	4604											
	000053	959¢	1031											
SERDF = C		9594	4810	4875	4895	4908	4921	4935	4948	4961	4974	4987	5000	5016
SEMON -	MM033	5029	5045	5058	5074	5087	5103	5116	5132	5145	5158	5174	5187	5203
		5216	5230	5241	6936	6955	6974	7028	7047	7059	7078	7090	7109	7128
SERHR - C	000056	9594	2500	25.45	0,00	0,00		.020				.030	1,407	,150
SERRO- C	000060	9594	4643	4653	4675	4687	4700	4710	4723	4734	4745	4840	4854	5837
VEHILLO .		5847	5857	5871	5881	5891	5901	5911	5920	5931	5947	5958	5975	5989
		6000	6011	6022	6033	6050	6098	6108	6118	6132	6142	6152	6161	6172
		6188	6199	6212	6223	6233	6244	6255	6266	6275	6322	6332	6342	6356
		6366	6376	6385	6396	6412	6423	6436	6447	6457	6468	6479	6490	6499
		6541	6563	6573	6583	6593	6603	6616	6627	6642	6653	6664	6675	6726
		6748	6758	6768	6778	6788	6800	6811	6825	6836	6847	6858	7182	7201
		7211	7221	7231	7241	7250	7261	7271	7282	7296	7307	7321	7332	7342
		7353	7363	7374	7384	7395	7412	7423	7440	7454	7465	7476	7487	7498
#ERSF = (9594												
\$ERSO= C		9594	4448	4488	4433	4400	4700	4710	4706	4774	4747	****	****	****
*ESCA= C	00010	9594	4645 4900	4655 4913	4677 4926	4689 4940	4702 4953	4712 4966	4725 4979	4736	4747 5005	4815	4842	4856
		4880 5063	5079	2095	5108	5121	5137	5150	5163	4992 5179	5192	5021 5208	5034	5050
		5839	5849	5859	5873	5883	5893	5903	5913	5922	5933	5949	5221 5960	5235 5977
		5991	6002	6013	6024	6035	6052	6100	6110	6120	6134	6144	6154	6163
		6174	6190	6201	6214	6225	6235	6246	6257	6268	6277	6324	6334	6344
		6358	6368	6378	6387	6398	6414	6425	6438	6449	6459	6470	6481	6492
		6501	6543	6565	6575	6585	6595	6605	6618	6629	6644	6655	6666	6677
		6728	6750	6760	6770	6780	6790	6802	6813	6827	6838	6849	6860	6941
		6960	7033	7052	7064	7083	7095	7114	7184	7203	7213	7223	7233	7243
		7252	7263	7273	7284	7298	7309	7323	7334	7344	7355	7365	7376	7386
		7397	7414	7425	7442	7456	7467	7478	7489	7500				
SESEG- C		9590												
*ESUB - C	000003	9590	6981	7135										
SETST- C	00001	9594	4751	5249 6906	6056	6281	6505	6690	6873	7139	7504			
SEXIT- C	00032	9594	4778	6906										
GETB- C		9594												
SGETW- C		9594												
+GMM- (9594	4480											
#GPHR = 0	MANASA	9594	4480											
#GPRI- C		9594 9594												
INIT- C		9594	4516											
INLP- C		9594	4310											
SMANT- C		9594												
SMEM - C		9594												
SMSG - C		9594	3861	3900	3934	3978	4023	4058	4093	4128				
OPEN- C		9594												
SPWTB- C		9594	3857	3914	3924	3930	3947	3953	3963	3973	3992	3998	4008	4018
		4037	4043	4053	4072	4079	4089	4107	4113	4123	4271			
SPNTF - C		9590	3308	3319	3330	3348								
SPNTS- C		9594												
SPNTX- C	000015	9594	3877	3893	4162	4172	4179	4189	4196	4206	4213	4223	4238	4248
		4255	4265	4287	4297	4304	4314	4321	4331	4338	4348	4364	4374	4381
		4391												
*QIO - C		9594												
#RDBU- C		959¢ 959¢	4438	4445	4452	4459								
#REFG= 0														

DHEC.P	11	LINE UNIT 12-JUL-84	10:56	IMCITT	30A(1052 CROSS R		TABLE -						
RESE-	000033		9594	4509	4601								
REVI-	000003		9594	1030									
MTLA-	000021		9594 9594										
CEEC.	000025		9594										
SPRT.	000041		9594 9594										
SVEC-	000037		9594	4541									
TPRI=	000013		9594	11									
CHP =	040000 002404		13350	4639	4831	5833	6094	6318	7178				
VMAP	002404		17270	4468+	4486+								
VPTR	002406		17280	4472+	4484+	4486	4487+						
PTBL	002150	G	11070										
AGAC .	000000		959 1247¢										
D =	000001		13860	2618	2621	2694	3156	3159	4824	4827	7100		
DI .	000000 000000 000050		1391	2010	200.2	2074	02.50	0207	4054	402.	1200		
BUG -	000000		16480										
.CON=	000036	G	11610	4458									
.NEW-	000035	G	11820	4451									
.PUR=	000034	G	11830										
.RES-	000037	G	11800	4444									
.STA-	000040	G	11790	4437									
AV55-	0000002		16360	3262									
100	012230		3116 3128	3816¢ 3816¢									
14	000002 015536 015556 014324 014340		3573	38164									
16	014340		3563	38164									
	014214		2642	3816#									
25 28 29	014360		2370	38164									
28	014406		3060	3632	3816#								
29	014427		3049	3642	38164								
13	014263		2109	38164									
30	014444		3064	3609	38164								
31	014465		3073 3514	3619 3816#	3816# 5018	5047	5076	5105	5134	5176	5205		
34 35	014530		3540	38164	3010	3041	3070	2103	3134	3110	2503		
36	014551		3550	38164	5147								
39	014566		3586	38164									
4	014307		2153	2200	2271	3816#	4877						
40	014610		2153 3596	38160									
54 68	014626 014650		3501	38164									
68	014650		2746	38164									
69 70	014677 014715		2779	38164									
71	014737		2790	3816# 3816#									
72	014755		2824 2835	38164									
72	014777		2869	38164	4897	4910	4923	4950	4963	4976	4989		
74	015014		2880	3816#									
75	015014 015035 015051 015071 015105 015125 015161 015201 015225		2914	3816#	5002	5031	5060	5089	5118	5160	51.89	5218	
76	015051		2914 2925 2959	3816#									
77	015071		2959	38164									
76	015105		2970	38164									
79	015125		38160	4812									
60 61	015201		38164	4937 5232									
97	ATOSAT		3816# 3816#	5243									

CVDNECO CVDNEC.		LINE UNIT	DIAG3 10:56	MACY11			L-84 11 TABLE -							SEQ 1	78
M83 M84 M85 M86 M87	015262 015311 015326 015342 015363		3816# 3816# 3816# 3816# 3816#	6938 6957 6976 7061 7092	7030 7049 7080										
M88 M89 M90 M91	015403 015426 015450 015501		38160 38160 3002 3013	7111 7130 38160 38160											
NDCOD NDEMB NDIT	026235 012116 023074 003064		4790 38160 4461 20260	4818 3854 45130	5794e 3927	4268									
NOPAT NTRAN	011772		37550	6046 6204	6271 6428	6495									
PATX	002740		1926# 1664# 2881* 3502*	2110+ 2915+ 3515+	2154+ 2926+ 3541+	2201* 2960* 3551*	2272+ 2971+ 3564+	2371+ 3003+ 3574+	2643+ 3014+ 3587+	2747+ 3050+ 3597+	2780* 3061* 3610*	2791* 3074* 3620*	2825* 3085* 3633*	2836* 3117* 3643*	2870¢ 3129¢
RRFLG RRMSG	002350		17130 16630 28800 3501	2109+ 2914+ 3514+	2153+ 2925+ 3540+	2200+ 2959+ 3550+	2271* 2970* 3563*	2370+ 3002+ 3573+	2642* 3013* 3586*	27464 30494 35964	2779¢ 3060¢ 3609¢	2790+ 3073+ 3619+	2824+ 3084+ 3632+	2835+ 3116+ 3642+	28694 31284
RRNBR	002174	G	16620 28794 35004	2108+ 2913+ 3513+	2152+ 2924+ 3539+	21994 29584 35494	22704 29694 35624	2369+ 3001+ 3572+	2641+ 3012+ 3585+	2745+ 3048+ 3595+	27784 30594 36084	27894 30724 36184	28234 30834 36314	2834 3115 3641	2868 3127
RROR1 RRTYP	002376 002172		17240 16610 28780 34990	4422+ 2107+ 2912+ 3512+	2151+ 2923+ 3538+	2198+ 2957+ 3548+	2269+ 2968+ 3561+	2368+ 3000+ 3571+	2640+ 3011+ 3584+	2744+ 3047+ 3594+	2777+ 3058+ 3607+	2788+ 3071+ 3617+	2822* 3082* 3630*	2833+ 3114+ 3640+	2867 3126
RR10 RR11 RR11#	020364 020540 022032	G	2643 39854 4020	2747 6939 4125	3515 7031 42800	3940#	5019	5048	5077	5106	5135	5148	5177	5206	
RR12	020714		2780 3061 3620 5061	2791 3074 3633 5090	2825 3085 3643 5119	2836 3117 40300 5161	2870 3129 4896 5190	2881 3502 4911 5219	2915 3541 4924	2926 3551 4951	2960 3564 4964	2971 3574 4977	3003 3587 4990	3014 3597 5003	3050 3610 5032
RR12# RR13	022364	G	3975 4065#	4055 4813	43570						-				
RR14 RR3	021146	G	4100# 3851#	4938 5244	5233	6958	6977	7050	7062	7081	7093	7112	7131		
RR4 RR4# RR5# RR7A	020120 021306 021634 020244	G	2110 3652 3697 2371	2154 41560 42310 39050	2201	2272	3866#	4878							
VRC = XADD = XCON =	000004 002400 000020 000010		11990 13420 13540 13550	6318											
HEND =	000005 002100 000035		12464 9594 9594	4862 1054	4871										
LGCA2= LGCB1= LGCB2=	000002 000001 000020 000010		1584¢ 1584¢ 1580¢ 1581¢ 1572¢												

						I/T-	•						
DMV11 LINE UNIT P11 12-JUL-84	DIAG3 10:56	MACY11	30A(1052 CROSS R) 12-JU	L-84 11 TABLE -	:12 PAG	E 181 YMBOLS					SEQ 1	179
000004 000100 000040	15820 15780 15790												
012560 012634 012655 012674	3816# 3816#	4245	4262										
012751	3816# 3816# 3816#	3911											
013072 013115	3816# 3816#												
013236 013317 013372	3816# 3816# 3816#												
013452 012126 013503 013513	3816# 3816#	3944	3989 3995	4034 4040	4069 4110	4104							
013535 013614	38160 38160 38160	3970 4284 4294	4015 4361 4328	4086 4371									
013657 013712 013721	3816# 3816#	3960	4005	4050	4120 4378								
012163 013762 014017	38164 3305 3316	3921 3816# 3816#	4020	4005	40.0								
014117 012247	3816# 3816#	4159	4235 4203										
012340 012345 014150	38160 38160 38160	4176 4186 4076 3874	4193 4220	4210	4252								
000015	38160 17210 9590	4424 4614	4433+ 4616 4570										
000040	9594	962 4598 4771	3851 4614 4778	3866 4634 4815 5021	3905 4645 4842 5034	3940 4655 4856 5050	3985 4677 4880 5063	4030 4689 4900 5079	4065 4702 4913 5092	4100 4712 4926 5108	4725 4940	4736 4953	4534 4747 4966 5150
	5163 5893 6052	5179 5903 6055	5192 5913 6081	5208 5922 6100	5221 5933 6110	5235 5949 6120	5248 5960 6134	5820 5977 6144	5839 5991 6154	5849 6002 6163	6013	5873 6024 6190	5883 6035 6201 6358
	6368 6504 6677	6378 6526 6689	6387 6543 6711 6872	6398 6565 6728	6414 6575 6750	6425 6585 6760	6438 6595 6770	6449 6605 6780	6459 6618 6790	6470 6629 6802	6481 6644 6813 7033	6492 6655 6827 7052	6501 6666 6838 7064
	000004 000100 000040 012560 012634 012655 012674 012703 012751 012766 013020 013072 013115 013157 013236 013317 013372 013452 012126 013503 013513 013535 013614 013627 013657 013721 013721 013721 013755 012163 013721 013755 012163 014017 014065 014117 012247 012305 012340 012345 014150 012400 012400 012400 012430 002370 000015 000020	000004 000100 15780 000040 15790 012560 38160 012634 38160 012655 38160 012703 38160 012751 38160 013020 38160 013020 38160 013157 38160 013157 38160 013157 38160 013317 38160 013572 38160 013572 38160 013573 38160 013535 012126 38160 013535 38160 013535 38160 013614 38160 013657 013657 38160 013712 38160 013712 38160 013712 38160 013712 38160 013712 38160 013713 38160 013714 013657 014017 012047 012345 014017 012247 012345 012340 012345 014150 012340 012345 014150 012443 012530 012443 012530 012530 014015 012530 014015 012443 012530	P11 12-JUL-84 10:56 000004	P11 12-JUL-84 10:56 CROSS R 000004 15780 000040 15780 0012560 38160 012634 38160 012655 38160 4245 4262 012703 38160 012751 38160 012751 38160 013072 38160 013157 38160 013157 38160 013157 38160 013317 38160 013317 38160 013535 38160 3944 3989 013513 38160 3950 3995 013535 38160 4294 4361 013614 38160 4284 4361 013627 38160 4294 4328 013712 38160 4294 4326 013712 38160 4294 4326 013712 38160 4294 4361 013614 38160 4294 4361 013617 38160 4294 4361 013618 38160 3960 4005 013712 38160 3960 4005 013712 38160 4294 4328 013712 38160 4294 4338 013712 38160 4294 4338 013712 38160 4294 4338 013712 38160 4294 4338 013712 38160 4294 4338 013712 38160 4294 4338 013712 38160 4294 4338 013712 38160 4294 4338 013712 38160 4294 4338 013712 38160 4294 4361	P11 12-JUL-84 10:56 CROSS REFERENCE 000004	000004	DNV11 LINE UNIT DIAG3 Pl1 12-JUL-84 10:56 000004 15786 000040 15786 000040 15786 000040 15786 000040 15786 000040 15786 012650 38166 012653 38166 012653 38166 012751 38166 012751 38166 012763 38166 013020 38166 013015 38166 013157 38166 013157 38166 013157 38166 0131537 38166 013357 38166 013537 38166 013537 38166 013535 38166 3995 3995 4040 4110 013535 38166 3995 3995 4040 4110 013535 38166 3910 4015 4086 013514 38166 3970 4015 4086 013515 38166 3970 4015 4086 013517 38166 4224 4361 013627 38166 4224 4361 013627 38166 4224 4361 013657 38166 411 4345 4388 013712 38166 3900 4000 4000 4120 013721 38166 3921 4318 4335 4378 014017 3316 38166 3921 4318 4335 4378 014017 38166 4000 4000 4000 4252 013724 38166 4166 4204 4204 4203 014017 38166 3921 4204 4205 014017 38166 4169 4203 014017 38166 4169 4203 014017 38166 4169 4203 014117 38166 014200 38166 4076 012240 38166 4076 012240 38166 4169 4203 012340 38166 4076 012247 38166 4166 4200 012247 38166 4169 4203 012340 38166 3800 012330 38166 3800 012330 38166 3800 012330 38166 4076 012403 38166 3800 012530 38166 4076 012404 38166 3800 012530 38166 4076 012403 38166 4076 012404 38166 3800 012530 38166 4076 012404 38166 3800 012530 38166 4076 012403 38166 3800 012530 38166 4076 012404 38166 3800 012530 38166 4076 012404 38166 3800 012530 38166 4076 012404 38166 3800 012530 38166 4076 012404 38166 3800 012530 38166 4076 012404 38166 3800 012530 38166 4076 012404 38166 3800 012530 38166 4076 012404 38166 4076 012404 38166 4076 012404 38166 4076 012404 38166 4076 012404 38166 4076 012404 38166 4076 012404 38166 4076 012404 38166 4076 012505 38166 4076 012605 38166 4076 012606	DMV11 LINE UNIT DIAGS MACY11 30A(1052) 12-JUL-84 11:12 PAGE 161	DMV11 LINE UNIT DIAG3 P11 12-JUL-84 10:56 CROSS REFERENCE TABLE USER SYMBOLS O000040 15789 000040 15789 0012560 38166 012655 38166 012674 38166 012751 38166 012751 38166 013072 38166 013157 38166 013157 38166 013317 38166 013317 38166 013153 38166 3991 013572 38166 012126 38169 012126 38169 012126 38169 012126 38169 012127 38169 015513 38166 4284 4361 015617 38166 4284 4361 015617 38166 4284 4361 015712 38166 4284 4361 015712 38166 3921 015775 38166 4284 4361 015712 38166 4284 4361 015712 38166 4284 4361 015712 38166 4284 4361 015712 38166 4284 4361 015712 38166 4284 4361 01572 38166 4389 4389 4389 4389 4389 4389 4389 4389	DRVII LINE UNIT DIAGS PII 12-JUL-84 10:56 0000000	DRV11 LINE UNIT DIAGS PI1 12-JUL-84 10:56 CROSS REFERENCE TABLE USER SY/BOLS 000004 00100 15786 000100 15786 000250 38166 012503 38166 012503 38166 013032 38166 013032 38166 013032 38166 013157 38166 013157 38166 013157 38166 013157 38166 013157 38166 013157 38166 013157 38166 013157 38166 013157 38166 013515 3	DRV11 LINE UNIT DIAGS PIL 12-JUL-84 10:56 000004	DW11 LINE UNIT DIAGS PI1 12-JAL-84 10:56 CROSS REFERENCE TABLE USER SYNBOLS SEQ 1 CROSS REFERENCE TABLE U

								L14	1						
VINECO	DHV11 I	INE UNIT	DTAG3	MACY11	30A(1052) 12-JU	L-84 11	:12 PAG	E 182					SEQ 18	30
VDMEC.	P11	2-JUL-84	10:56			EFERENCE									
			7083	7095	7114	7134	7138	7167	7184	7203 7344	7213	7223	7233	7243	7252
			7263	7273	7284	7298	7309	7323	7334	7544	7355	7365	7376	7386	7397
			7414	7425	7442	7456	7467	7478	7489	7500	7503	7519	7570	7588	
	000007		9594	4584 4598	4588										
			9594 9594	4598	4603	7001	7075	7070	4024	4050	4004	4120	4517	4570	4500
END =	000041		4244	962	3862	3901	3935 4655	3979 4677	4024 4689	4059 4702	4094 4712	4129 4725	4517	4572	4590
			4605	4618	4634 4778	4645	4842	4856	4880	4900	4913	4926	4736 4940	4747 4953	4750
			4752	4771 4992	5005	4815	5034	5050	5063	5079	5092	5108	5121	5137	4966 5150
			4979	5179	5192	5021 5208	3221	5030	5248	5250	5820	5839	5849	5859	5873
			5163 5883 6035	5893	5903	5913	5922	5235 5933	5949	5960	5977	5991	6002	6013	6024
			6035	6052	6055	6057	6081	6100	6110	6120	6134	6144	6154	6163	6174
			6190	6201	6214	6225	6235	6246	6257	6268	6277	6280	6282	6306	6324
			4559	6344	6358	6225 6368	6378	6387	6398	6414	6425	6438	6449	6459	6470
			6190 6334 6481 6629 6790	6492	6501	6504	6506	6526	6543	6565	6575	6585	6595	6605	6618
			6629	6644	6655	6666	6677	6689	6691	6711	6728	6750	6760	6770	6780
			6790	6802	6813	6827	6838	6849	6860	6872	6874	6900	6906	6910	694
			6960	6980	6982	6989	7033	7052	7064	7083	7095	7114	7134	7136	7130
			7140	7167	7184	7203	7213	7223	7233	7243	7252	7263	7273	7284	729
			7309	7323	7334	7344	7355	7365	7376	7386	7397	7414	7425	7442	745
			7467	7478	7489	7500	7503	7505	7554	7576	7588				
HARD-	000004		9594	7519	7552										
HW =	000013		9594	1105	1121										
INIT-			9594	4417	4515										
JP .	000050		9594	4778	6906										
= COM	000000		9594	962	7588										
MSG =	000011		9594	3851	3860	3866	3899	3905	3933	3940	3977	3985	4022	4030	405
			4065	4092	4100	4127									
	000021		9594	4404	4409										
SPUR =	000017		9594												
SRPT -	000012		9594												
SEG -	000003		9594												
SOFT"	000005		9594	7570	7574										
SRV =	000010		9594												
SUB -	200000		9594	6911	6980	6990	7134								
SW =	000014		9594	1130	1135	4770			****		4000	4707		(507	6690
FTEST -	000001		9590	4635	4750	4772	5248	5821	6055	6082	6280	6307	6504	6527	6689
	000704		6712	6872	6901	7138	7168	7503	26744	26754	27704	7505.	75064	75274	3524
DATA	002324		17020	2104+	2148+	2195+	2266*	2362	2634+	2635*	2738+	3505*	3506+ 4871+	3523 + 4887 +	501
			3867+	3869	3889	3920	3969	4014	4085 6931*	4145	4803± 7022±	4804+	40174	40014	3010
TOCO	004024		5041+	5070+	50994	5128*	5170+	5199*	0327+	7016+	10554				
TBSR	004024		22984 4462	44760	4485										
ETURS	004360		2394	4357	4403										
ETVRS	004460		24254	4280											
TWSR	004166		2103	2147	2194	2265	23194	4870	5237						
DODAT	002364		17190			2200									
CMTO-	000200		9594												
	000372		9594												
	000003		9594												
EXCP-	000400		9594								V THE				
	000002		9594												
LOLI-	000001		9594												
SNO =	000000		9594												
			9594	7523	7528	7533	7539	7545							
OFFS=	000400			1263											

CVDHECO CVDHEC.		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052 CROSS R) 12-JU EFERENCE		12 PAG						SEQ 1	01
G\$PRMA-			9594	7523 7533	7528										
G#PRMD=	000005		9594	7533	7539	7545									
GSPRML -	000000		9594												
GRADA-	000140		9594												
G\$RADB-	000000		9594 9594												
G#RADD= G#RADL=			9594												
G#RADO-	000050		9594	7523	7528	7533	7539	7545							
GIXFER-			9594												
GIYES -	000010		9594	7523	7528	7533	7539	7545							
HDX -	000004		13884												
HELP .	000000		950#	984	1072	1096	2073								
HOE .	100000	G	12120												
IBE -	010000	G	1209#												
IDLE .	000010		13290												
IDLES .	004000	-	13294 13384 12024	4831	5833	7178									
100	000040	6	15054												
IDU - IEI - IEO - IER -	0000001		12190												
TED -	020000	6	12180												
INIDHV	000001 000020 020000 005376 007234		27160	4636	4773	5822	6082	6307	6528	6713	7169				
INITRN	007234		31520	4638	5832	6093	6317	6536	6721	7177	.207				
DUTTI	004534		24634			-									
INITT2	004734		24634 25504												
INTFLG	002346		17110												
INTFLG INTGRL = INTSC =	000001		1637	3260	4775										
INTSC -	000200		15940												
ISR =	000100	G	12030												
IXE -	004000	G	1208#												
I AU -	000041		9594	46144	46184										
I SAUTO-	000041		9594	45344	45720										
I#CLN =	000041		9594	4584¢ 4598¢	45904										
ISHED -	0000041		9594 75194	7554	4605#										
I INIT-	000041		9594	44170	45170										
I \$MOD -	000041		9594	9624	75884										
I #MSG =	000041		9594	38514	38624	3866#	3901#	3905#	3935#	39400	3979#	3985#	40240	40300	40590
			4065#	40944	4100#	41290									40590
I \$PROT =			959#	44040											
I \$PTAB=			9594												
I PUR =			9594												
I #RPT =	000041		9594												
I SEG =	000041		9594	4634	4771	5820	6081	6306	6526	6711	6900	6910	6989	7167	
I SETU-			9594	7576A											
I#SFT = I#SRV =			75700	7576#											
I SUB -			9594	4634	4771	5820	6081	6306	6526	6711	6900	69100	6941	6960	69800
14300 -	0000-1		69824	69894	7033	7052	7064	7083	7095	7114	71340	71360	7167	0,00	0,000
ISTST -	000041		9594	4634#	4645	4655	4677	4689	4702	4712	4725	4736	4747	47500	47524
			9590 69820 9590 47710	4778	4815	4842	4856	4880	4900	4913	4926	4940	4953	4966	4979
			4992	5005	5021	5034	5050	3063	5079	5092	5108	5121	5137	5150	5163
			5179	5192	5208	5221	5235	52484	5250#	5820#	5839	5849	5859	5873	5883
			5893	5903	5913	5922	5933	5949	5960	5977	5991	6002	6013	6024	6035
			6052	6055#	6057	6081#	6100	6110	6120	6134	6144	6154	6163	6174	6190
			6201	6214	6225	6235	6246	6257	6268	6277	6280#	62824	6306#	6324	6334
			6344	6358	6368	6378	6387	6398	6414	6425	6438	6449	6459	6470	6481

								N14							
CVDMECO CVDMEC.		LINE UNIT	DIAG3 10:56	MACY11	30A(1052 CROSS R) 12-JU	L-84 11 TABLE -	:12 PAG	E 184 YMBOLS					SEQ 1	.82
JIJIP =			6492 6644 6802 71400 7309 7467 9590	6501 6655 6813 7167¢ 7323 7478	65040 6666 6827 7184 7334 7489	65060 6677 6838 7203 7344 7500	65260 66890 6849 7213 7355 75030	6543 6691¢ 6860 7223 7365 7505¢	6565 6711¢ 6872¢ 7233 7376	6575 6728 68740 7243 7386	6585 6750 6900¢ 7252 7397	6595 6760 6906 7263 7414	6605 6770 6910 7273 7425	6618 6780 6989 7284 7442	6629 6790 71380 7298 7456
LOADAT LOE = LOGDEV	00236 04000 00233	G	1718# 1211# 1706# 1200#	4470+	4477+	4479	4564								
LUSWI1 LUSWI2 LUIMOD L#ACP L#APT	00246 00246 00200 00211 00203	6 6 0 G	17630 17640 9620 10610	4502+ 4503+											
L\$APT L\$AU L\$AUT	00203 02323 00207	0 G	10190 1046 10450	46140											
L\$AUTO	02307	6 G 6 G	1062 1059# 1060	4534¢											
L#CLEA L#CO L#DEPO	02322 00203 00201	2 G 1 G	1015# 997#				4								
L#CO L#DEPO L#DESC L#DESP L#DEVP	00330 00207 00206	6 G	1052 1051¢ 1037¢	2061#											
L#DISP L#DLY L#DTP L#DTYP	00212 00211 00204 00203	4 G 6 G 0 G	1022 10670 10210 10170	1085#											
L\$DU L\$DUT L\$DVTY	00700		1048 1047¢ 1038	4598¢ 2049¢											
L#EF L#ENVI L#ERRT	02322 00207 00326 00205 00204 00210 00204 00206 03365 00212	2 G 4 G 2 G	10320 10250 1056	1660#											
L#ETP L#EXP1 L#EXP4	00210 00204 00206	6 G 4 G	1055¢ 1027¢ 1041¢ 1043¢												
LSEXPS LSEXPS LSHARD LSHIME LSHPCP	03365 00212 00201	2 G 0 G	1004 1069# 1003#	7519	7520#										
LSHM LSICP LSINIT	00201 00202 00215 00210 02255	0 G 4 G	1007¢ 1008 1057¢	1105	1106#										
L#INIT L#LADP L#LAST L#LOAD	02255 00202 03451 00210	4 G	1058 10110 1012 10530	7594 <i>e</i>											
L\$LUN L\$MREV L\$NAME	00207 00205 00200	4 G 0 G 0 G	10490 10290 9860 10230												
L#PRIO L#PROT L#PRT	00204 02254 00211	2 G 6 G	10230 1064 10630	44049											

CVDMEC.	DMV11 LINE UNIT	DIAG3	MACY11	30A(1052) CROSS RE	12-JU	TABLE	USER S	E 185 YMBOLS						
LIREPP	005010 B	10394												
LIREY	034302 G	7570	75710											
L#SOFT L#SPCP L#SPTP L#STA L#SM L#TEST	034302 G 002056 G 002020 G 002024 G 002030 G 002172 G	10350												
L#SPCP	005050 C	10050												
LISPIP	002024 6	10090												
LISIN	002030 G	1130	11310											
LITEST	002114 6	10650												
	002014 G	1001#												
L\$UNIT L10000 L10001 L10002 L10003 L10004 L10005 L10006	002012 G	1105	11210											
110000	002170 002172	1130	11350											
L10002	020116	38600												
L10003	020242 020362 020536	38994												
L10004	020362	39334 39774												
110005	020712	40224												
L10007	021026	40570												
L10010	021144	40924												
L10011	021260 023074	41270 45150												
L10013	023212	45700												
L10015	023222	45884												
L10016	023226	45880 46030 46160												
L10017	023230	46164	4656	4678	4690	4703	4713	4726	4737	4748	47500			
L10020	023530 025406	4646 4779	4816	4843	4857	4881	4901	4914	4927	4941	4954	4967	4960	4993
	•	5006	5022	5035	5051	5064	5080	5093	5109	5122	5138	5151	5164	5180
		5193	5022 5209 5650 6003	5035 5222 5860 6014	5236	5064 52480 5884 6036	8004	5904	5914	5923	5934	5950	5961	5978
L10022	027112	5840 5992	6003	6014	5874 6025	6036	5894 6053	60550	3974	3723	3734	3730	3702	33.0
L10023	027654	6101	6111	6121	6135	6145	6155	6164	6175	6191	6202	6215	6226	6236
		6247	6258	6269	6278	62800			4200	***	****	6470	6450	6460
L10024	030416	6325 6471	6335	6345	6359	6369 6504 <i>e</i>	6379	6388	6399	6415	6426	6439	0430	0400
L10025	031100	6544	6482 6566	6493 6576	6502 6586	6596	6606	6619	6630	6645	6656	6667	6678	66894
L10026	031562	6729	6751	6761	6771	6781	6791	6803	6814	6828	6839	6850	6861	68724
L10027	032526	6907	71380											
L10030	032034	6942	6961	69800	7084	7096	7115	71340						
L10031 L10032	032524 033646	7034	7053 7204	7065 7214	7224	7234	7244	7253	7264	7274	7285	7299	7310	7324
FIGOR	033010	7185 7335	7345	7356	7366	7377	7387	7398	7415	7426	7443	7457	7468	7479
		7490	7501	75030										
L10033	033730	7519	75530 75750											
HCLR .	034302 000100	7570 12300	1232	2094	2106									
MCODE	025410	4782	1232 4794	52500										
MCODE MDHRDY-	000040	14010	6929 22560	6931	7014	7016	7020	7022	7104	7123				
MLURI MPCSR MPIVEC	003722	2231 17360	3942	3987	4032	4067	4102	4490						
PIVEC	002416 002456	17600	4498+	3301	7005		-206							
MPOVEC	002460	17610	4499+	4500+										
MPRIOR	002462	17620	4501+	21.44	2101	2247	4040							
MRDY .	000200	12370 12310	2101	2144	2191	2263	4868							

7170

7175

	CVDMEC.	DHV11 LINE UNI	DIAG3 10:56	MACY11) 12-JU EFERENCE							
	MSTCLR NCRACT-	020000	2094¢ 1646¢	2716 6661	6913 6672	6992 6844	6855						
	NCTBMT = NEWLIN	012123	16420 38160	3389									
	NEWST	022720	4454	44690									
	NFCRDA-	040000	16450	6672	6855								
	NOCHK .	003400	13410	4639 4720	4731	4742							
	NOCRDA- NOLOOP-	001000	16400	5823	5829	6083	6089	6308	6314	6529	6534	6714	6719
1	NORXEN-	040000	16390		-								
-	NULCLK-	000200	13830										
	OVRC -	002000	13430	6094									
	OFAPTS-	000001	9594 9594	1013	1045								
	OSBGR-	000000	9594	1039									
	048GNS-	000000	9590	1005									
	0+DU -	000001	9594 9594	9634	1047								
	OFERRY-	000001	9590	9834	1055								
	OPPOIN-	000001	9594	9834	1071								
	0#SETU-	000000	9594 9594	999	7592								
	PALENS-	000001	15480										
	PATCH	034302 002576	75780 18160										
	PATE	002606	18274	2624									
	PATG	002616	18380										
	PATI	002741	19290										
	PATJ	003002	19650	7403	7426								
1	PATL.	003012 003033	19964	1403	7420								
	PATU	003054	20160										
	PATX	002645	18640	5938	5963	6179	6403						
1	POLEIG-	000002	15470	2172									
	PCR - PCSARH-	120407	13490	3172 3166	4834								
	PCSARL-	120404	13140	3162	4829								
	PNT .	001000 G	12060										
	PRESET-	000001	13900	2618	3156	4824							
	PRIOR -	002000 G 002342	12070										
	PRIRTY	034007	7534	75550									
	PRIOO -	000000 G	11950										
	PRIO1 -	000040 G	11940										
	PRIOS -	000100 G 000140 G	11930										
	PRIO4 -	000200 G	11914										
	PRIOS -	000240 G	11900										
	PRIO6 -	000300 G	11890										
	PRIO2 = PRIO3 = PRIO4 = PRIO5 = PRIO6 = PRIO7 = PROTO	000340 G 000100	11900 11890 11880 13260 17080										
	PSIMUM	002340	17080	4419+									
	RABGA -	000004	12/14	3577	3579	3589							
	RAMADR-	001000	16340	4783	4795	4861							
	RCVBUF RCVDAT=	003064 000002	20320	6928	7013	7019							
	RCV1ST	011624	36994	5916	6157	6381	6612	6796	7246				

SEL10

SEL12

SEL14

CVDMECO	DMV11 LINE UNI	T DIAG3 4 10:56	MACY11	30A(1052 CROSS R			: 12 PAGE						SEQ 1	186
SEL16 SEL2 SEL4 SEL6	002452 002422 002426 002432	17570 17390 17420 17450	2326 2320 2136+ 2206	2183+	2229÷ 2255÷	2254+ 2322	2321	4860+	4861+					
SETVIA	005304 002172 G 000001	26820 11320 13720	2717											
SPEED -	000020 000034 004356	14020 15360 23810 17300	6928	7013	7019									
TALL TARES TARST	002412 022710	17300	3302 4447	3313	3324	3341	4465+	4471+						
TEPLU	012072 000040	3204	3395	3443	3664	3714	3770	37930	4692					
TRIPS-	020000 000301 004250	13270 13360 12320 23480	4639	4831	5833	6094	6318	7178						
SUBRPC	002344	17100 9590	4420+	0604	006	005	997	000	1001	1007	1005	1007	1000	1011
VCGBL -	000000	1013	962 1015	969 0 1017	986 1019	995 1021	997 1023	999 1025	1001	1003	1005 1032	1007 1035	1009 1037	1011
		1041	1043	1045	1047	1049	1051	1053	1055	1057	1059	1061	1063	1065
		1067 3940	1069	1085 4030	1106 4065	1107 4100	1131	1132 4417	1660 4534	2049 4584	2061 4598	3851 4614	3866 7520	3905 7571
		75940	3965 7595	4030	4003	4100	4404	4471	4334	4304	4370	4014	1320	1311
VCINS=	000001	9594	9664	987	988	989	990	991	992	993	994	996	998	1000
		1002 1028 1052 1088 2107 2270 2746	1004	1006	1008	1010	1012	1014	1016	1018	1020	1022	1024	1026
		1028	1030 1054	1031 1056	1058	1054	1036	1038	1040 1066	1042 1068	1044	1046 1084	1048 1086	1050 1067
		1068	1089	1090	1091	1092	1093	1094	1105	1130	2050	2053	2062	2069
		2107	2108	2109	2110	2151	2152	2153	2154	2196	2199	2200	2201	2269
		2270	2271	2109 2272 2777	2368 2778	2369	2370 2780	2371	2640	2641	2642	2643	2744	2745
		2825	2747 2633	2834	2635	2779	2867	2788	2789 2869	2790 2870	2791 2878	2822 2879	2823 2880	2624 2681
		2912	2913	2914	2915	2836 2923	2924	2656 2925 3003 3071	2926	2957	2958	2959	2960	2968
		2912 2969 3049 3085 3309 3346 3539 3573 3610 3854 3699 3915 3931 3954 3972	2913 2970	2914 2971 3058	3000 3059	3001	2924 3002 3061 3126 3320 3500 3550 3567 3630 3861 3894 3922 3945 3962 3968 4005 4023	3003	3011	3012 3073	3013	3014	2960 3047	2968 3048
		3049	3050	3058	3059	3060	3061	3071	3072	3073	3074	3082	3083 3307	3084 3308 3345 3538 3572 3609 3643 3888 3914 3930 3953 3971
		3085	3114	3115 3317 3348 3541 3584 3618 3656 3891	3116 3318 3349 3548 3565 3619 3857 3892 3920 3943 3960 3978	3117 3319	3120	3127 3327 3501 3551 3594 3631 3873 3900 3923 3946 3963 3969 4006 4032	3126 3326 3502 3561 3595 3632	3129 3329 3512 3562 3596 3633 3875 3910	3305 3330 3513 3563 3597 3640	3306 3331	3307	3305
		3346	3316 3347 3540 3574 3617 3855 3890	3348	3349	3499	3500	3501	3502	3512	3513	3514	3344 3515 3571 3608 3642 3878	3538
		3539	3540	3541	3548	3499 3549	3350	3551	3561	3562	3563	3514 3564 3607	3571	3572
		3573	3574	3584	3585	3586 3620 3858 3893	3587	3594	3595	3596	3597	3607	3608	3609
		3610	3617	3618	3619	3620	3630	3631	3632	3633	3640	3641 3877	3642	3643
		3839	3833	3830	3037	3838	3001	3973	3874 3909	3910	3876	3912	3913	3914
		3915	3918	3919	3920	3921	3922	3923	3924	3925	3911 3927 3950 3968 3992	3928	3913 3929 3952	3930
		3931	3918 3934	3919 3942	3943	3921 3944	3945	3946	3947	3925 3948 3967	3950	3928 3951	3952	3953
		3954	3958 3973	3959 3974	3960	3961	3962	3963	3964 3990	3967	3968	3969	3970	3971
		3972	3975	3999	4003	3987 4004	3988	3989	4007	3991	3992	3993 4012	3995 4013	3996
		4015	4016	4017	4018	4019	4023	4032	4033	4008 4034	4009 4035	4036	4037	4014 4038
		4040	4041	4042	4043	4044	4048	4049	4050	4051	4052	4053	4054	4058
		4067	4068	4069	4070	4071	4048 4072	4073	4075	4076	4077	4078	4079	4080
		4063	4084	4085	4086	4087	4088	4089	4090	4093	4102	4103	4104	4105
		2444	444											
		3997 4015 4040 4067 4083 4106 4123 4168	4107 4124	4108 4128	4110	4111	4112 4159	4113 4160	4114	4118 4162	4119 4163	4120 4165	4121 4166	4122

						LT	,						
CVDMECO DMV11	LINE UNIT DIAGS	MACY11	30A(1052	2) 12-J		:12 PAG	E 189					SEQ 1	87
CVDMEC.P11	12-JUL-84 10:56		CROSS R	REFERENCE	TABLE -	- USER S	YMBOLS						
	4183	4184	4185	4186	4187	4188	4189	4190	4192	4193	4194	4195	4196
	4197	4199	4200	4201	4202	4203	4204	4205	4206	4207	4209	4210	4211
	4212	4213	4214	4216	4217	4218 4239	4219 4241	4220 4242	4221 4243	4222 4244	4223 4245	4224	4233
	4234 4248	4235 4249	4236 4251	4237 4252	4217 4238 4253	4254	4255	4256	4258	4259	4260	4246 4261	4247 4262
	4263	4264	4265	4266	4268	4269	4270	4256 4271	4258 4272	4282	4283	4284	4285
	4286	4287	4288	4290	4291	4292	4293	4294	4295	4296	4297	4298	4300
	4301	4302	4303	4304	4291 4305	4307	4308	4294 4309	4310	4311	4260 4283 4297 4312	4313	4314
	4315 4330 4345 4368 4382 4444	4317	4318	4319	4320 4335	4321	4322	4324 4338	4325	4326	4327 4342	4328	4329
	4330	4331	4332	4334	4335	4336	4337	4338	4339	4341	4342	4343	4344
	4345	4346	4347 4370	4348 4371	4349 4372	4359 4373	4360 4374	4361 4375	4362 4377	4363 4378	4364 4379	4365 4380	4367 4381
	4300	4369 4384	4385	4386	437	4388	4389	4390	4391	4392	4437	4438	4440
	4444	4445	4447	4451	4452	4454	4458	4390 4459	4461	4479	4480	4481	4483
	4509	4516	4537	4538	4387 4452 4539	4540	4541	4542	4559	4560	4564 4675	4565	4571
	4589	4601	4604	4617	4643 4702	4645	4646	4653	4655	4656	4675	4677	4678
	4589 4687 4736	4689	4690	4700	4702	4703	4710	4542 4653 4712 4779	4713	4723	4725	4726	4734
	4736	4737	4745	4747 4843	4748 4854	4751 4856	4778 4857	4875	4810 4876	4811	4812 4878	4813 4880	4815 4881
	4816 4895	4840 4896	4842 4897	4898	4900	4901	4908	4909	4910	4911	4913	4914	4921
	4922	4923	4924	4926	4927	4935	4936	4937	4938	4940	4941	4948	4949
	4922 4950	4951	4953	4954	4961	4962	4963	4964	4966	4967	4974	4975	4976
	4977	4979	4980	4987	4988	4989	4990	4992	4993	5000	5001	5002	5003
	5005	5006	5016	5017	5018	5019	5021	5022	5029	5030	5031	5032	5034
	5005 5035 5074	5006 5045 5075	5046 5076	5047 5077	5018 5048 5079	5050 5080	5051 5087	5022 5058 5088	5059 5089	5060 5090	2001	5063 5093	5064 5103
	5104	5105	5106	5108	5109	5116	5117	5118	5119	5121	5122	5132	5133
	5134	5135	5137	5138	5109 5145 5175 5205 5233 5850	5146	5147	5148	5150	5151	5061 5092 5122 5158	5159	5160
	5161	5163	5164	5174	5175	5176	5177	5148 5179	5180	5187	5188	5189	5190
	5192	5193 5230 5840 5891	5203	5204 5232	5205	5206 5235	5208	5209 5241 5860	5216	5217	5218 5244 5874	5219	5221 5837
	5222 5839	5230	5231 5847	5849	5255	5857	5236 5859	5241	5242 5871	5243 5873	5244	5249 5881	5883
	5884	5891	5893	5894	5901	5903	5904	5911	5913	5914	5920	5922	5923
	5931	5933	5934	5947	5949	5950	5958	5960	5961	5975	5977	5978	5989
	5991	5992	6000	6002	6003	6011	6013	6014	6022	6024	6025	6033	6035
	6036	6050	6000 6052	6053	6003 6056	6098	6100	6101	6108	6110	6111	6118	6120
	6121	6132	5134 6175	6135	6142	6144	6145	6152	6154	6155	6161	6163	6164
	6172	6174	61/5	6188 6235	6190	6191	6199 6246	6201	6202	6212 6257	6258	9512	6268
	6225	6226 6275 6356 6398	6233 6277 6358 6399	6278	6236 6281 6366	6244 6322 6368 6415	6324	6247 6325 6376	6255 6332	6334	6214 6258 6335	6215 6266 6342	6223 6268 6344
	6269 6345	6356	6358	6359	6366	6368	6369	6376	6378	6379	6385 6438	6387	6388 6447
	6396	6398	6399	6412	6414	6415	6423	6425	6426	6436	6438	6439	6447
	6449	6450	6457	6459	6460	6468 6541	6470	6471	6479	6481	6482 6566	6490	6492
	6493	6499	6501	6502	6505	6541	6543	6544	6563 6605	6565	6616	6573 6618	6575 6619
	6576	6583 6629	6630	6586 6642	6644	6645	6596 6653	6655	6656	6606 6664	6666	6667	6675
	6627 6677	6678	6585 6630 6690 6778	6726	6460 6505 6593 6644 6726	6595 6645 6729	6748	6603 6655 6750	6751	6758	6616 6666 6760	6761	6768
	6770	6771	6778	6780	6/61	6788	6790	6791	6800	6802	6803 6858	6811	6813
	6814	6825	6827 6907	6828	6836 6936	6838	6839	6847	6849	6850	6858	6860	6861
	6873	6906	6907	6911	6936	6937	6938	6939	6941	6942	6955	6956 7030	6957 7031
	6958	6960	6961	6974 7048	6975 7049	6976 7050	6977 7052	6981 7053	6990 7059	7028 7060	7029 7061	7062	7064
	7033 7065	7034 7078	7047 7079	7080	7081	7083	7084	7090	7091	7092	7093	7095	7096
	7109	7110	7111	7112	7114	7115	7128	7129	7130	7131	7135	7139	7182
	7184	7185	7201	7203	7204	7211	7213	7214	7221	7223	7224	7231	7233
	7234	7241	7243	7244	7250	7252	7253	7261	7263	7264	7271	7273	7274

								G15							
VDMECO	DMV11	LINE UNIT	DIAG3	MACY11	30A(1052				190					SEQ 18	88
DHEC.		12-JUL-84	10:56		CROSS R	EFERENCE	TABLE -	- USER S	MBOLS						
			7282	7284	7285	7296	7298	7299	7307	7309	7310	7321	7323	7324	7332
			7334	7335	7342	7344	7345	7353	7355	7356	7363	7365	7366	7374	7376
			7377	7384	7386	7387	7395	7397	7398	7412	7414	7415	7423	7425	7426
			7440	7442	7443	7454	7456	7457	7465	7467	7468	7476	7478	7479	7487
			7489	7490	7498	7500	7501	7504	7519	7523	7524	7525	7526	7528	7529
			7530	7531	7533	7534	7535	7536	7537	7539	7540	7541	7542	7543	7545
			7546	7547	7548	7549	7552	7570	7574	7591	7592	7593			
	000001		9594	9684	6910	6989									
VCTAG=	000001		9594	9700	1077	1081	1121	1135	3860	3899	3933	3977	4022	4057	4092
			4127	4515	4570	4588	4603	4616	4750	5248	6055	6280	6504	6689	6872
			6980	7134	7138	7503	7553	7575							
	000001		9594	967#	4634	4771	5820	6081	6306	6526	6711	6900	7167		
	121000		16284												
	121400		16290	****	4430				****	****		4000			
YNCH =	000226		13150	3199	4639	5833	5843	5853	6094	6104	6114	6250	6261	6318	6328
			6338	6474	6485	7178	20000	70764	70704	40074	40504	40074	44000	4044	4834
FLSYM-	010000		9590	11220	11360	38610 47510	39000	39340	39784	40234	4058# 6690#	40934	41284	45164	45714
			45894	46040	46170	41214	52494	6056#	6281	6505#	00304	6873#	6981#	7135#	71396
			75040	75540	75760										
	000004		12990	2062	2077	3209									
BMT -	000100		13664	2862	2873 6903	3209									
CCHEK-			16330	3247	6303										
CON.H	034123		7546	75550											
DATA	002322		17010	2353 3195	2420	4845									
DSRH =	120403		12944	3198	3430 3377	4848									
DSRING	120402		18130	27.30	3377	4040									
EOM =	000002		13000	5967	5981	6609	6633	6794	6817	7288	7432	7446			
ERR -	000200		12970	3901	3901	0009	0033	0134	9011	1200	1432	7440			
	000010		12984												
IMFLG	002352		17140												
H -	0000004		14040	6929	6931										
MPO	000004 002546 002550 002552		17940	4543+	4561	4573+									
HP1	002550		17950	43434	4302	43134									
MP2	002552		17960												
MP3	002554		17970												
MP4	002556		17984												
HP4 HP5	002560		17990												
MP6	002562		18000												
MP7	002564		1801												
SO =	000010		13694	3109	3121										
SOM =			13010	3196	4659	4663	4846	6042	6208	6229	6432	6453	6547	6550	6553
			6684	6732	6735	6738	6867	7188	7191						
STCON	002472		17660	3249	3254	3270	3272	3281	3284	3290	4505+	5827	608?	6312	6532
			6717	6986	7173										
STNUM	002414		17310	3344	4772+	6901+									
TLOOP-			13894	3192	3222	3756	3769	4684	4697	6922	6946	6965			
XAB -	002000		1306#												
XACT =	000004		13700	2772	2783										
XCHAR	010136		3372	4670	5842	5852	5866 6337	5876	5886	5896	5906	5942	6103	6113	6127
			6137	6147	6183	6327	6337	6351	6361	6371	6407	6558	6568	6578	6588
			6598	6743	6753	6763	6773	6783	7196	7206	7216	7226	7236	7266	7316
			7337	7358	7379	7407									
XCTRL	010250		34254	4658	4662	4666	5862	5966	5980	6041	6123	6207	6228	6347	6431
			6452 6816	6546 6866	6549	6552	6555	6608	6632	6683	6731	6734	6737	6740	6793
					7187	7190	7193	7287	7312	7431	7445				

CVDMEC.		INE UNIT	DIAG3 10:56	MACY11			-84 11:12 TABLE USE	
TXDL TXEN TXEOM TXERR TXGA	004000		13530 13850 13070 13040 13050	3484 3192	6095 3222	6319 4684	4697	
TXSOM = TXTMLT TXTML0 TXTML1 TXTML2	000400 017744 017154 017160 017174		13050 13080 38250 38160 38160 38160	3888 3825 3825 3825				**
TXTHL3 TXTHL4 TXTHL5 TXTHL6	017211 017233 017254 017304		38164 38164 38164	3888 3825 3825 3825 3825 3825 3825 3825				
TXTNPT TXTNPT TXTNP0 TXTNP1	017316 017500 020030 017505		38160 38160 38380 38160 38160	3837 3838 3838				
TXTNP2 TXTNP3 TXTNP4 TXTNP5	017515 017525 017535 017552 017567		38160 38160	3838 3838 3838 3638				
TXTNP6 TXTNP7 TXTNP8 TXTNUL	017604 017620 017634 017152		38164 38164 38164 38164	3838 3838 3838				
TXTUR TXTURT TXTURO TXTUR1 TXTUR2	017650 020052 017663 017671 017677		38160 38160 38160 38160	3910 3909 3841 3841 3841	3959 3958	4049 4048		
TXTUR3 TXTUR4 TXTUR5 TXTUR6	017705 017713 017722 017731		38160 38160 38160 38160	3841 3841 3841				
TXTUR7 TXTVR TXTVRA TXTVRB TXTVRC	017735 017353 017451 017454 017460		38160 38160 38160 38160	3841 3829 3833 3833 3833 3833	4004	4119		
TXTVRD TXTVRE TXTVRF TXTVRT	017464 017470 017474 017766		38160 38160 38160 38300	3633 3633 3633 4003	4118			
TXTVRO TXTVR1 TXTVR2 TXTVR3	017371 017375 017401 017406		38160 38160 38160 38160	3830 3830 3830 3830				
TXTVR4 TXTVR5 TXTVR6 TXTVR7 TXTVR8	017413 017420 017425 017432 017437		38160 38160 38160 38160	3830 3830 3830 3830 3833				
TXTVR9 TXT1	017444 015602		3816¢ 3816¢	3833 4157				

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70.0			-

VDMECO	DMV11 LINE UN P11 12-JUL-	IT DIAG3 84 10:56	MACY11	30A(1052 CROSS R	12-JU	L-84 11 TABLE -	:12 PAG	E 192 YMBOLS					SEQ 1	90
XT11 XT11A	016402 016422 016474	38164 38164 38164 38164												
XT11B	016532	38164	3943	3988	4033	4068	4103							
XT13	016630	38160	4360											
XT14	016645	38160	4359											
	016703 016745	3816¢ 3816¢	4377 4263											
KT16 KT17	016760	38164	4282											
KT18	017015	38164	4300											
(T19	01.7056	3816#	4317											
KT2	015640 015702	38160	4175											
KT2A KT2B	015702	3816# 3816#	4192 4209											
KT20	017112	3816#	4334											
KT3	016004	38160	4158											
KT4	016034	38164	4233											
CT4A CT5	016074 016135	3816# 3816#	4251											
CT6	016137	38164	4234											
KT7	016162	38160												
KT7A	016252	38160												
	016342	3816# 3816#												
XU =	016362 000002	13710	3493											
ARGC=	000005	9874	9884	9890	9900	991#	9924	33054	3309	33160	3320	33270	3331	33440
		3349	38540	3858	38734	3878	38884	3894	39094	3915	3918#	3925	3927	3931
		39420	3948	39504	3954	39584	3964	39674	3974	39874	3993	3995#	3999	40034
		4009 4063#	40124	4019 41020	4032 4 4108	4038 41100	4040 0 4114	4044	40480	4054 41570	4067 4 4163	4073 41650	40750 4173	4080 41754
		4180	41820	4190	41924	4197	41990	4207	42090	4214	42160	4224	42330	4239
		42410	4249	42510	4256	42584	4266	42684	4272	42820	4288	42900	4298	43000
		4305	43070	4315	43170	4322	43244	4332	43340	4339	43410	4349	43594	4365
ACODE -	006032	43670 75230	4375 75280	43770 75330	4382 7539e	4384¢ 7545¢	4392							
	000113	9594	48110	48764	48964	49094	49224	4936#	49490	49620	49750	4988#	50010	50170
		5030#	5046#	50594	50750	50884	51040	51170	51330	51464	5159#	51750	51884	5204#
45W00		52170	52310	52420	69374	69564	69754	70290	70480	70600	70790	7091	71100	71290
	000000	7523 <i>0</i> 4645 <i>0</i>	7527 4655#	75284 46774	7532 46894	75330 47020	7538 47120	75390 47250	7544 4736#	75450 47470	7550 47780	48150	48420	48564
FF LAG-	000040	48804	49000	49134	49264	49400	49534	49664	49794	49924	50054	50210	50340	50504
		50634	50790	50924	51084	51210	51370	51500	51630	51790	51924	5208#	5221	52354
		4880¢ 5063¢ 5839¢	58494	58594	58730	5121¢ 5883¢ 6035¢ 6225¢	58934	5903#	59134	59224	59334	59490	5960#	59774
		59910	61900	60130	60240	60350	60524	61000	61100	61200	61340	61440	61540 63340	61634
		61740	63684	6201¢	62140	63984	6235¢	62464	6257 0	6268¢ 6449¢	64590	63240	64814	64924
		6358¢ 6501¢	63680 65430	65654	65754	65854	65954	66054	66180	66294	66444	66554	66664	66770
		67284	67500	67600	67700	6780#	6790#	68024	68130	68274	6838#	6849#	68604	6906#
		69410	6960#	70330	70524	70640	70834	70950	71140	71840	72030	72130	72230	72330
		72430	72520	72630	72730	72840 74420	72984	73090	73230	73340	7344¢ 7500¢	73550	73650	73760
SCHAN-	000000	73864 9594	73970	74140	74250	14454	74564	74670	74780	74890	13000			
	000004	75234	7526	7528#	7531	75330	7537	75390	7543	75450	7549			
\$LAST=	000001	9594	75924											
	000000	75230	7525	75284	7530	7533#	7536	7539#	7542	75450	7548			

						You give		J15	,						
														SEQ 1	91
VDMEC.		LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11) 12-JU EFERENCE		12 PAGE							
\$LSYM=	010000		9594	1122	1136	3861	3900	3934	3978	4023	4058	4093	4128	4516	4571
			4589	4604 7554	4617 7576	4751	5249	6056	6281	6505	6690	6873	6981	7135	7139
el TMO=	000011		7504 75950	1334	1316									**	-
	177777		959#	962#	11050	11210	11300	11350	3851#	3860#	3866#	38994	3905#	39330	394
			3977#	3985#	40224	4030#	4057	40654	40924	41000	41270	4404#	4409#	44170	451
			45344	45700	4584¢ 6280¢	4588¢ 6307¢	4598# 6504#	4603# 6527#	4614¢ 6689¢	4616# 6712#	46354 68724	4750# 6901#	47720	52484	582
			6055¢	6082 0 7138 0	7168#	75030	75194	75524	75700	75740	75884	03014	6911#	6980#	699
NSO -	000000		9624	7588	12000	13000	.5250		13100		.5004				
NS1 -			11050	1121	11300	1135	38510	3860	38664	3899	3905#	3933	3940#	3977	398
			4022	4030	4057	40654	4092	41000	4127	44040	4409	44170	4515	45344	457
			45840	4588 6307#	4598# 6504	4603 6527#	4614¢ 6689	4616 6712#	4635¢ 6872	4750 6901#	4772 4 7138	5248 7168#	5821# 7503	6055 7519#	608 755
			6280 75700	7574	6304	03214	0009	OLIEA	0012	03074	1130	17004	1303	13534	, ,,,
INS2 =	000002	2	69114	6980	6990#	7134									
PTNU=	000000		9594												
SAVL=	177777		9594												
SEGL =	177777		9594 9594	46340	47710	5820#	6081#	6306#	6526#	67110	6900#	6910#	69894	71670	
	177777		9594	40344	41120	30504	00024	0000#	03501	0.224	0,000	07200	0,0,0	.20.0	
	010035		9594	11050	11300	3851#	3866#	3905#	39400	3985#	4030#	4065#	41000	44040	441
			45340	45844	45984	46144	46354	47720	58214	6082	6307#	6527	67120	6901	691
TEND-	00000		69900	71684	75190	7570 0	1088#	10890	10900	10910	10924	10930	10940	1095#	112
IEM-	000000	,	10774	1081# 3860#	1086# 3899#	39334	39774	40224	40570	40924	41270	44094	45154	45700	458
			46034	4616#	46454	4646	46554	4656	46770	4678	46894	4690	47024	4703	471
			4713	47250	4726	47364	4737	47470	4748	47500	47780	4779	46150	4816	484
			4843	4856#	4857	4880#	4881	4900#	4901	49134	4914	49264	4927	49400	494
			49534	4954	4966# 5051	4967 50634	49790 5064	4980 5079#	49924 5080	4993 50924	5005# 5093	5006 5108#	5021# 5109	5022 5121	503 512
			5035 51370	5050e 5138	51500	5151	51630	5164	51790	5180	51924	5193	52084	5209	522
			5222	52354	5236	52484	56394	5840	58494	5850	58594	5860	58730	5874	588
			5222 5884	58934	5894	59034	5904	59130	5914	59224	5923	5933	5934	59494	595
			5960#	5961	59770	5978	59914	5992	60024	6003	60130	6014	60240	6025	603
			6036	60520 61540	6053 6155	61634	61000	6101	61100	6111	6120 0 6191	6121	61340	6135 62140	621
			6145 6225 4	6226	62350	6236	62464	6247	6257#	6258	6268#	6269	62774	6278	628
			6324#	6226 6325 6398¢	63344	6335	63440	6345	6358#	6359	6368#	6369	6378#	6379	638
			6388	6396#	6399	64140	6415	6425#	6426	6438#	6439	64490	6450	64594	646
			64700	6471	64810	6482	64924	6493	65010	6502	65040	6543¢ 6619	6544 6629#	6565 4 6630	656
			6575¢ 6645	6576 6655 0	6585 4 6656	6586 6666#	65954 6667	6596 6677#	6605¢	6606 6689#	66184	6729	67500	6751	670
			6761	6770#	6771	67800	6781	67900	6791	68024	6803	5813₽	6814	68274	682
			68384	6839 70334	68490	6850	6860#	6861	68724	6906#	6907	6941#	6942	6960#	690
			6980#	70334	7034	70520	7053	7064#	7065	7083	7084	70950	7096	71140	711
			71340	71384	71840	7185	72030	7204	72130	7214 72840	7223 4 7285	7224 7298#	7233¢ 7299	7234 73090	724
			7244 73230	72520	7253 73340	7263 4 7335	7264 73440	72730 7345	7274 73550	7356	73654	7366	73760	7377	738
			7387	7324 73970	7398	74140	7415	74250	7426	74420	7443	74564	7457	74674	746
			74784	7479	74894	7490	75000	7501	75030	75230	75284	75330	75394	75450	755
			75744	7588# 4634#			****			67444	60000	6010	6000	71674	750
	000011		9594	46340	47710	5820# 3330	6061¢	6306 4 3857	6526 * 3861	6711# 3877	6900# 3893	6910 3900	6989 3914	7167 0 3924	759 393
1121U=	177777		959¢ 3934	3308 3947	3319 3953	3963	3973	3978	3992	3998	4008	4018	4023	4037	404
			4053	4058	4072	4079	4089	4093	4107	4113	4123	4128	4162	4172	417

							K15	5						
CVDMECO DMV11 CVDMEC.P11	LINE UNIT 12-JUL-84	DIAG3 10:56	MACY11	30A(1052 CROSS R) 12-JU	L-84 11 TABLE -		E 194 YMBOLS					SEQ 1	92
		4189 4314 4480 4653 4736 4895 4979 5074 5163 5837 5903 5989 6098	4196 4321 4509 4655 4745 4900 4987 5079 5174 5839 5911 5991 6100	4206 4331 4516 4675 4747 4908 4992 5087 5179 5847 5913 6000 6108	4213 4338 4541 4677 4751 4913 5000 5092 5187 5849 5920 6002 6110	4223 4348 4560 4687 4778 4921 5005 5103 5192 5857 5922 6011 6118	4238 4364 4565 4689 4810 4926 5016 5108 5203 5859 5931 6013 6120	4248 4374 4571 4700 4815 4935 5021 5116 5208 5871 5933 6022 6132	4255 4381 4589 4702 4840 4940 5029 5121 5216 5873 5947 6024 6134	4265 4391 4601 4710 4842 4948 5034 5132 5221 5881 5949 6033 6142	4271 4438 4604 4712 4854 4953 5045 5137 5230 5883 5958 6035 6144	4287 4445 4617 4723 4856 4961 5050 5145 5235 5891 5960 6050 6152	4297 4452 4643 4725 4875 4966 5058 5150 5241 5893 5975 6052 6154	4304 4459 4645 4734 4880 4974 5063 5158 5249 5901 5977 6056 6161
		6163 6244 6342 6414 6490 6593 6666 6780 6858 7033 7139 7250 7323 7395 7478	6172 6246 6344 6423 6492 6595 6675 6788 6860 7047 7182 7252 7332 7397 7487	6174 6255 6356 6425 6499 6603 6677 6790 6873 7052 7184 7261 7334 7412 7489	6188 6257 6358 6436 6501 6605 6690 6800 6906 7059 7201 7263 7342 7414 7498	6190 6266 6366 6438 6505 6616 6726 6802 6911 7064 7203 7271 7344 7423 7500	6199 6268 6368 6447 6541 6618 6728 6811 6936 7078 7211 7273 7353 7425 7504	6201 6275 6376 6449 6543 6627 6748 6813 6941 7083 7213 7282 7355 7440	6212 6277 6378 6457 6563 6629 6750 6825 6955 7090 7221 7284 7363 7442	6214 6281 6385 6459 6565 6642 6758 6827 6960 7095 7223 7296 7365 7454	6223 6322 6387 6468 6573 6644 6760 6836 6974 7109 7231 7298 7374 7456	6225 6324 6396 6470 6575 6653 6768 6838 6981 7114 7233 7307 7376 7465	6233 6332 6398 6479 6583 6655 6770 6847 6990 7128 7241 7309 7384 7467	6235 6334 6412 6481 6585 6664 6778 6849 7028 7135 7243 7321 7386 7476
T\$TSTS= 000001 T\$\$AU = 010017 T\$\$AUT= 010014 T\$\$CLE= 010015 T\$\$DU = 010016 T\$\$HAR= 01003 T\$\$HM = 010000 T\$\$INI= 010013 T\$\$MSG= 010011		9590 46140 45340 45840 45980 75190 11050 44170 38510	46354 4616 4570 4588 4603 7553 1121 4515 3860	47720	58210	60824	63074	6527¢	6712 0	6901¢	71684	40300	4057	4065#
T##PRO= 010012 T##SOF= 010034 T##SUB= 010031		4092 44040 75700 69110	7575 6941	4127 6960	6980	69900	7033	7052	7064	7083	7095	7114	7134	
T##SW = 010001 T##TES= 010032		11300 46350 4815 5021 5208 5922 6100 6246 6398 6565 6728 69010 7284 7442	1135 4645 4842 5034 5221 5933 6110 6257 6414 6575 6750 6906 7298 7456	4655 4856 5050 5235 5949 6120 6268 6425 6585 6760 7138 7309 7467	4677 4880 5063 5248 5960 6134 6277 6438 6595 6770 71680 7323 7478	4689 4900 5079 58210 5977 6144 6280 6449 6605 6780 7184 7334 7489	4702 4913 5092 5839 5991 6154 63070 6459 6618 6790 7203 7344 7500	4712 4926 5108 5849 6002 6163 6324 6470 6629 6802 7213 7355 7503	4725 4940 5121 5859 6013 6174 6334 6481 6644 6813 7223 7365	4736 4953 5137 5873 6024 6190 6344 6492 6655 6827 7233 7376	4747 4966 5150 5883 6035 6201 6358 6501 6666 6838 7243 7386	4750 4979 5163 5893 6052 6214 6368 6504 6677 6849 7252 7397	47720 4992 5179 5903 6055 6225 6378 65270 6689 6860 7263 7414	4778 5005 5192 5913 60820 6235 6387 6543 67120 6872 7273 7425
T.EDF = 000001		16484	2107	2151	2198	2269	2368	2640	2744	2777	2788	2822	2833	2867

								L15	5						
VDHECO.	DMM	LINE UNIT	DTAGE	MAC"11	30A(1052) 12	L-84 11							SEQ 1	.93
VDMEC.	P11	12-JUL-84	10:56	11110.22	CROSS R	ÉFERÈNCE	TABLE -	- USER S	YMBOLS						
			2878	2912	2923	2957	2968	3000	3011	3047	3058	3071	3082	3114	3126
.EHRD=	00000		3499 1648#	3512	3538	3548	3561	3571	3584	3594	3607	3617	3630	3640	
ESF =		5	16484												
ESFT-	00000		1648#												
i	02323	2 G	1086	4634#											
IMODE -	00030		15210												
2	02353	S C	1087	47710											
PHODE-	00004	6	15310	58200											
3	02711		1089	60814											
5	02765		1090	6306#											
5	03042) G	1091	65264											
7	03110		1092	67110											
	03156	G	1093 6910#	6900#											
.1	03160		69894												
	03253	G	1094	71670											
M =	00020	G	12040												
AINT-	00000		1406#	6928	7013	7019									
IT	00241		17290												
BITS EGS	00256		18040	2394	2397+	2400	4367	4368	4369	4370	4384	4385	4386	4387	
TATR-	12200	5	13610	2399	2732	2768	2813	2858	2903	2948	3105	3207	3491	3718	
YREG	00247		17710	2625									• • • • • • • • • • • • • • • • • • • •	0.20	
YRT -	12040		12530	2625 2395	2408	2412									
CTOR	03375		7529	75550	2477										
A =	120001		1375¢ 1519¢	2426 2486	2433 2495	2573	2582	2696	3175	4649					
ADPA-	12000		14250	2687	6918	6997	2302	2030	3173	4047					
ADPB-	12000		14130	2687 2684	6915	6994									
AIER-	12001	5	1592	2482	2569	2702									
AJFR-	12001		1570												
AMS =	12000		13974	2400			4047	7007	7040	7071	7100	71.21			
ACCO.	120001		16124	2690 2617	6926 2620	6948 2693	6967 3155	7007 3158	7040 3191	7071 3768	7102 4683	7121 4696	4823	4826	692
MUND-	12000		6945	6964	7000	7037	7068	7099	7118	3700	4003	4030	4023	4020	076
APCR-	120014		15574	2699											
ASR =	120012	2	15090	4706											
ATIA-	12000		14390	2508	****										
ATIC-	120000		14510	2513 2499	3797 3178										
ATID-	12000		14750	2504	3181										
	12001		14864	2504 2586	0202										
AT28-	12001		1496#	2591 2425										(depth	
EGS	002262	2	1697	2425	4290	4291	4292	4293	4307	4308	4309	4310	4324	4325	432
TTEA	00507		4327	4341	4342	4343	4344								
IT50	005270		26590 17170												
	000000		12430	2256	2266										
IPAG-	000004		12450												
RITE	003700		2229#	2351											
ITEI	003712	2	2253	2481	2494	2498	2503	2507	2512	2568	2581	2585	2590	2616	261
			2683	2686	2689	2692	2695	2698	2701	3154	3157 3796	3161 4648	3165 4682	3171 4695	3174 4786
			3177 4822	3180 4825	3190 4828	3194 4833	3197 4844	3376 4847	3429 6914	3767 6917	6920	6944	6963	6993	6996

CVDMECO DMV11 CVDMEC.P11	LINE UNIT DIAGS 12-JUL-84 10:56	MACY11	30A(1052 CROSS R		L-84 11 TABLE -	: 12 PAG						SEQ 19	94
WSR0 00220 WSR10 00221 WSR12 00221 WSR14 00221 WSR16 00222 WSR4 00223 WSR4 00223	2 16774 4 16794 6 16814 0 16834 4 16714 6 16734 0 16754	2323+ 2324+ 2325+ 2326+ 2320+ 2321+ 2322+	7067 4244 4261 4260 4259 4258 4243 4242 4241	7098	7117								
XDATA 00233 XORGB 02126 XYZ = 00000 X\$ALWA= 00000 X\$FALS= 00004 X\$OFFS= 00040 X\$TRUE= 00002	2 3916 7 13304 0 9594 0 9594 0 9594 0 9594	3965	3967 4010	4012 4081	4083	4146•	4147•						
\$E = 00011	3 16484 28774 34984 48744 50574 52404	21060 29110 35110 48940 50730 69350	21500 29220 35370 49070 50860 69540	21970 29560 35470 49200 51020 69730	22680 29670 35600 49340 51150 70270	23670 29990 35700 49470 51310 70460	26390 30100 35830 49600 51440 70580	27430 30460 35930 49730 51570 70770	27760 30570 36060 49860 51730 70890	27870 30700 36160 49990 51860 71080	2821¢ 3081¢ 3629¢ 5015¢ 5202¢ 7127¢	28320 31130 36390 50280 52150	2866¢ 3125¢ 4809¢ 5044¢ 5229¢
\$LSTIN= 00000 \$LSTTA= 00000 \$T = 00001 . = 03451	1 9654 1 16484		47520 16970 4690 4638 5006 5193 5879 5950 6031 6145 6221 6325 6394 6471 6581 6656 6776 6850 7185 7259 7335 7410 7490	57960 17810 4698 4843 5022 5209 5884 5956 6036 6150 6226 6330 6399 6477 6586 6662 6781 6856 7199 7264 7340 7415 7496	60574 20324 4703 4852 5035 5222 5889 5961 6048 6155 6231 6335 6410 6482 6591 6667 6786 6861 7204 7269 7345 7421 7501	62820 20530 4708 4857 5051 5236 5894 5973 6053 6159 6236 6340 6415 6488 6596 6673 6791 6907 7274 7351 7426 75790	6506¢ 2069¢ 4713 4881 5064 5795¢ 5899 5978 6096 6164 6242 6345 6421 6493 6601 6678 6798 6798 6798 6798 6798 6798 6798	66910 38170 4721 4901 5080 5835 5904 5987 6101 6170 6247 6354 6426 6497 6606 6724 6803 6961 7219 7285 7361 7443	68744 4641 4726 4914 5093 5840 5909 5992 6106 6175 6253 6359 6434 6502 6614 6729 6809 7034 7224 7294 7366 7452	71400 4646 4732 4927 5109 5845 5914 5998 6111 6186 6258 6364 6439 6539 6619 6746 6814 7053 7229 7299 7372 7457	4651 4737 4941 5122 5850 5918 6003 6116 6191 6264 6369 6445 6544 6625 6751 6823 7065 7234 7305 7377 7463	4656 4743 4954 5138 5855 5923 6009 6121 6197 6269 6374 6450 6561 6630 6756 6828 7084 7239 7310 7382 7468	4673 4748 4967 5151 5860 5929 6014 6130 6202 6273 6379 6455 6566 6640 6761 6834 7096 7244 7319 7387 7474

								N15	5		
CVDHECO DHV	II LI	NE UNIT	DIAG3	MACY11	30A(1052) 12-JU	L-84 11 TABLE -	:12 PAG	E 198 NAMES		
CVDMEC.P11	12	-302-04	10:30								
COMPL	10	9594	4439	4446	4453	4460	4482				
BERROR	10	959#									
BGNAU	10	959#	4613								
BGNAUT	10	9594	4533								
BGNCLN	10	959#	4583								
BGNDU	10	959#	4597								
BGNHRU	10	9594	7518								
BGNHM	10	9594	1104								
BGNINI	10	9594	4416								
BGNMOD	10	9594	961		7004	7070	7004	4000	4064	4099	
BGNMSG	10	959#	3850	3865	3904	3939	3984	4029	4064	4099	
BGNPRO	10	9594	4403								
BGNPTA	10	9594									
BGNRPT	10	9594									
BGNSEG	10	9594									
BGNSET	10	9594	77.0								
BGNSFT	10	959#	7569								
BGNSRV	10	9594									
BGNSUB	10	9594	6909	6988							
BGNSW	10	9594	1129	4771	5000	6091	6306	6526	6711	6900	716
BGNTST	10	9594	4634	4771	5820	6081	6306	0250	0111	6900	110
BNCOMP	10	959#									
BNERRO	10	9594									
BREAK	10	9594	4500	4600							
BRESET	10	9594	4508	4600							
CKLOOP	10	9594									
CLOCK	10	9594									
CLOSE CLRVEC	10	9594	4558								
	10	9594	4330								
COMMEN	10	9594 9594									
DELAY	10	9594	2060								
DESCRI DEVTYP	10	9594	2048								
DISPAT	10	9594 9594	2048 1083								
DISPLA	10	9594	1003								
DOCIN		9594									
DOCLN	10	9594	4563								
DODU DORPT	10	9594	4303								
ENDAU	10	9594	4615								
ENDAUT	10	9594	4569								
ENDCI N	10	9594 9594 9594 9594 9594 9594 9594 9594	4587								
ENDCUM ENDCOM	10	9594	4301								
ENDOU	10	9594	4602								
ENDHRD	10	9594	7551								
ENDHM	10	9594	1120								
ENDINI	10	9594	4514								
ENDMOD	10	9594	7587								
ENDMSG	10	9594	3859	3898	3932	3976	4021	4056	4091	4126	
ENDPRO	10	9594	4408	0070							
ENDPTA	10	959¢ 959¢ 959¢	1100								
ENDRPT	10	9594									
ENDSEG	10	9594									
ENDSET	10	9594									
ENDSFT	10	959¢ 959¢	7573								
ENDSRV	10	9594	.3.0								
ENDSUB	10	9594 9594	6979	7133							
	_	,,,,,	9010								

SEQ 195

VOMECO	DHV11 L	INE UNIT	DIAG3 10:56	MACY11	30A(1052 CROSS R) 12-JU	L-84 11 TABLE -	:12 PAG - MACRO	E 199 NAMES					SEQ 1	~
NDSH NDTST QUALS	10 10 10	9594 9594 9594	1134 4749 1144	5247	6054	6279	6503	6688	6871	7137	7502				
RRDF	5045 6936	9590 5058 6955	4810 5074 6974	4875 5087 7028	4895 5103 7047	4908 5116 7059	4921 5132 7078	4935 5145 7090	4948 5158 7109	4961 5174 7128	4974 5187	4967 5203	5000 5216	5016 5230	5029 5241
RRHRD	5856 6032 6243 6446 6652 7181 7352	9590 9590 5870 6049 6254 6456 6663 7200 7362	4642 5880 6097 6265 6467 6674 7210 7373	4652 5890 6107 6274 6478 6725 7220 7383	4674 5900 6117 6321 6489 6747 7230 7394	4686 5910 6131 6331 6498 6757 7240 7411	4699 5919 6141 6341 6540 6767 7249 7422	4709 5930 6151 6355 6562 6777 7260 7439	4722 5946 6160 6365 6572 6787 7270 7453	4733 5957 6171 6375 6582 6799 7281 7464	4744 5974 6187 6384 6592 6810 7295 7475	4839 5988 6198 6395 6602 6824 7306 7486	4853 5999 6211 6411 6615 6835 7320 7497	5836 6010 6222 6422 6626 6846 7331	5846 6021 6232 6435 6641 6857 7341
RRSF PRSOF PRTBL SCAPE	10	9594 9594 9594 9594	1659	4654	4676	4688	4701	4711	4724	4735	4746	4814	4841	4855	4879
	4899 5107 5892 6109 6276 6480 6727 7051 7297 7477	4912 5120 5902 6119 6323 6491 6749 7063 7308 7488	4925 5136 5912 6133 6333 6500 6759 7062 7322 7499	4939 5149 5921 6143 6343 6542 6769 7094 7333	4952 5162 5932 6153 6357 6564 6779 7113 7343	4965 5178 5948 6162 6367 6574 6789 7183 7354	4978 5191 5959 6173 6377 6584 6801 7202 7364	4991 5207 5976 6189 6386 6594 6812 7212 7375	5004 5220 5990 6200 6397 6604 6826 7222 7385	5020 5234 6001 6213 6413 6617 6837 7232 7396	5033 5838 6012 6224 6424 6628 6848 7242 7413	5049 5848 6023 6234 6437 6643 6859 7251 7424	5062 5858 6034 6245 6448 6654 6940 7262 7441	5078 5872 6051 6256 6458 6665 6959 7272 7455	5091 5882 6099 6267 6469 6676 7032 7283 7466
FEQUAL GEDF	10 10 16480 5056	9594 9594 4808 5072	4777 4873 5085	6905 4893 5101 7045	4906 5114 7057	4919 5130 7076	4933 5143 7088	4946 5156 7107	4959 5172 7126	4972 5185	4985 5201	4998 5214	5014 5226	5027 5239	5043 6934
GEHRO GESF GESFT GETBYT GETHOR GHANIA GHANID GHANIL GHARO GPRHA GPRHO GPRHL	6953 16480 16480 10 10 10 10 10 10	9590 9590 9590 9590 9590 9590 9590 9590	7026 4478 7522		7057	7076	7000	7107	7120						
GPRMD GPRML	10	9594 9594	7522 7532	7527 7538	7544	2866	2438	2742	2775	2786	2820	2831	2865	2876	2910
GTDF GTHRD GTSF	16480 2921 3559 16480 16480	2105 2955 3569	2149 2966 3582	2196 2998 3592	2267 3009 3605	2366 3045 3615	2638 3056 3628	3069 3638	3080	3112	2820 3124	2831 3497	3510	3536	2910 3546
GTSFT HEADER INLOOP IOSETU	16480 10 10	9594 9594 9594	985												

CVDMEC.P	DMV11 L	INE UNIT 2-JUL-84	DIAG3 10:56	MACY11	30A(1052 CROSS R) 12-JU EFERENCE		- MACRO	E 200 NAMES						
IOSTAR	10	9594													
KT11	10	9594													
LASTAD	10	9590	7590												
MANUAL	10	9590													
HEMORY	10	9594													
MSG	46180	4624	47520	4758	57964	5802	6057	6063	6282	6288	6506#	6512	6691#	6697	68744
	6880	71400	7146												
M\$BYTE	10	9590	9864	992	993	994									
HICHEC	10	9594	47780	6906#											
M\$CNTO	10	9590	75230	75284	75330	75390	75450								
HICOUN	10	9590	33050	33160	33270	33440	38544	38730	38884	39094	39184	39274	39424	39500	39584
	39674	39870	39954	40030	40120	40324	40400	40480	40670	40750	40834	41020	41100	41180	41574
	41650	41750	41820	41920	41990	42094	42164	42334	42410	42510	42584	42684	42820	42900	43004
	43070	43170	43240	43340	43410	43590	43670	43770	43844						
HSDATA	10	9590	9864	995	997	999	1001	1003	1005	1007	1009	1011	1013	1015	1017
	1019	1021	1023	10250	1027	1029	1032	1035	1037	1039	1041	1043	1045	1047	1049
	1051	1053	1055	1057	1059	1061	1063	1065	1067	1069	20494	20610	*****		
MADECR	10	9590	11210	11350	38600	38994	39330	39770	40220	40570	40924	41270	44090	45150	45704
	45884	46030	46164	47500	52484	60550	62800	65040	66894	68720	69800	71340	71380	75034	75524
	75740	75884	-	2000	-	35504	70404								
HOEFA	10	9594	75230	75284	75334	75390	75450	20774	40004	40574	40004	44.074	45154	45744	45000
HIENDE	10	9590	11210	11350	38600	38990	39330	39770	40220	40570	40920	41270	45150	45700	45884
	46030	46160	47500	52484	60550	62804	65040	66890	68720	69600	71340	71380	75030	75520	75740
******	75880	0504	40100	40754	40054	40004	40014	40754	40444	40414	40744	40074	50000	50164	50000
MIERRI	10	9590	48100	48750	48950	49080	49210	49350	49480	49610	49740	49870	50000	50160	50294
	50450	50584	50744	50870	51030	51164	51320	51450	51584	51740	51870	52030	52164	52300	52410
MAECCA	69360	69554	69740	70284	70470	70590	70780 46770	7090 0 4678	71090	71284 4690	47020	4703	47120	4713	47250
MIESCA	4726	9590	46450	4646	46550 4748	4656		48420	46890	48564	4857	48800	4881	49000	4901
	4726 49130	47360	49260	4927	49400	48150	4816 4953e	4954	4843	4967	49790	4980	49920	4993	50054
		4914		50340	5035	50500	5051	50630		50790	5080	50924	5093	51080	5109
	5006 51210	50210	5022 51370	5138	51500	5151	51630	5164	5064 51790	5180	51920	5193	52084	5209	52214
	5222	52354	5236	58390	5840	58490	5450	58590	5860	58730	5874	58830	5884	58934	5894
	59030	5904	59130	5914	5840 59220	5923	5850 59334	5934	59494	5950	59600	5961	59770	5978	59914
	5992	60050	6003	60130	6014	60240	6025	60354	6036	60520	6053	61000	6101	61100	6111
	61200	6121	61340	6135	61440	6145	6025 61540 6236 63580	6035¢ 6155 6246¢ 6359	6036	6164	61740	6175	61900	6191	6111
	6202	62140	6215	62254	6226	62350	4234	62464	6247	6164 62570	6258	62684	6269	62770	6278
	63244	6325	6215 63340	4335	6226 63440	6345	63584	6359	63684	6369	63780	6379	63870	6388	63964
	6202 63240 6399 64920	64140	6415	6135 62250 6335 64250	6426	64380	6439	64490	6450	64590	6460	64700	6471	64810	6482
	64924	6493	65010	6502	6426 65430	6544	65650	6566	65750	6576	65854	6586	65954	6596	66054
	6606	66180	6619	6502 66290 6761	6630	66440	6645	6566 6655#	6656	66664	6667	66770	6678	67280	6729
	6606 6750¢	6751	67600	6761	6630 67700	6771	67800	6781	67900	6791	68020	6803	68130	6814	68274
	6828	68384	6839	68490	6850	68600	6861	69410	6942	69600	6961	70330	7034	70520	7053
	6828 70640	7065	70830	7084	6850 7095e	7096	71140	7115	71840	7185	72030	7204	72130	7214	72234
	7224	72330	7234	72430	7244	72520	7253	72630	7264	72730	7274	72840	7285	72980	7299
	7224 73090	7310	73230	7324	73340	7335	73440	7345	73550	7356	73650	7366	73760	7377	73864
	7387	73970	7398	74140	7415	74250	7426	74420	7443	74560	7457	74670	7468	74780	7479
	74890	7490	75000	7501											
MIESCS	10	9590	46450	46554	46770	46890	47020	47120	47250	47364	47470	48150	48420	48564	48604
	49000	49130	75000 46450 49260 51370	49400	49534	49664	49794	49924	50054	50210	50344	50500	50634	50790	50924
	51084	51210	21370	51500	51630	49660 51790	51924	52084	52210	52350	58390	58490	58594	58730	58834
	5108# 5893#	59034	59134	51500 59220	51630 59330	59490	59604	52084 59774	5221¢	5235¢ 6002¢ 6214¢	60134	60240	60350	60524	61004
	61100	61200	61340	61440	61540	61630	61740	61900	62010	62140	62254	62350	62464	62570	62684
	61100	63244	63340	63440	61540 63580	63680 65750	51920 59600 61740 63780	63870	63984	64140	64250	64384	64490	64590	64704
		64920	65010	65430	65654	65754	65850	65954	66050	66180	66294	66444	66554	66664	66774
	64810	0942	9-JULE			92129		60-37-3-4	STATE OF THE PARTY		UGE 74	COTT	00220		

VDHECO		INE UNIT	DIAG3 10:56	MACY11	30A(1052 CROSS R) 12-JU		12 PAG	E 201 NAMES					SEQ 19	,,,
	70520 72980	70640 73090	70830 73230	7095¢ 7334¢	71140 73440	71840 73550	72030 73650	72130 73760	72230 73860	72330 73970	72430 74140	72520 74250	72630 74420	72730 74560	72846 74676
	74780	74894	75000	75704	75774	75704	75454								
14EXCP	10	9594	75230	75284	75334 69064	7539# 6907	7545#								
SEXIT	10	9594	47780	4779 69064	02004	6907									
*EXSE	10	9594 9594	47780	69064											
I\$EXTJ I\$GEN	10	9594	9620	9864	9950	9970	9994	10010	10030	10050	10070	10090	10110	10130	1015
POEN	10170	10190	10210	10230	10250	10270	10290	10320	10350	1037#	10390	10410	10430	10450	1047
	10490	10510	10530	10550	10570	10590	10610	10630	10650	10670	10690	10850	11060	11070	1121
	11310	11320	11350	16600	20490	2061#	3851	3860#	38664	3899#	3905#	39334	39404	39770	3965
	40220	40300	40570	40650	40924	41000	41270	44044	44170	45150	45344	45700	45844	45884	4598
	46034	46144	46164	46340	47500	47710	52484	58204	60554	6081	62800	63064	65040	65264	6689
	67110	68720	69000	69100	6980#	69894	71340	71380	71670	75030	75200	75530	75710	75750	7594
I GENB	10	9590			20000	-		20224	*****	40574	****	*****	*****		4534
I#GETS	10	9594	11210	11350	38600	38994	39334	39770	40220	40570	40924	41270	44090	45150	4570
	45884 75744	4603¢ 7588¢	46160	47500	52484	60550	62800	65040	66894	68720	6980#	71340	71384	75030	7552
SETT	10	9594	46450	46550	46770	46890	47020	47120	47250	47360	47474	47780	48150	48420	4856
PUEII	48800	49000	49130	49264	49400	49530	49664	49790	49924	50054	50210	50340	50500	50634	5079
	50924	51080	51210	51370	51500	51630	51790	51920	52064	52210	52350	58394	58490	58594	5873
	58834	58934	59034	59130	59224	59334	59494	59600	39770	59910	60024	60130	60240	60350	6052
	61000	61100	61200	61340	61440	61540	61634	61740	61900	62010	62140	62250	62350	62464	6257
	62680	62770	63244	63344	63440	63584	63684	63780	63870	63984	64140	64250	64384	64490	6459
	64700	64810	64924	65010	65430	65654	65750	65854	65954	66054	66180	66290	66440	66550	6666
	66770	67280	67500	67600	67700	67800	67900	68024	68130	68270	68384	68490	68600	6906#	6941
	6960#	7033#	70520	70640	70630	70954	71140	71840	72030	72130	72230	72330	72430	72520	7263
	72730	72640	72984	73090	73230	73340	73440	73550	73650	73760	73864	73970	74140	74250	7442
#GNGB	74560	74670	74780	74890 9860	7500¢ 995¢	9970	9990	10010	10030	10050	10070	10090	10110	10130	1015
TUNUD	10170	10190	10210	10230	10250	10270	10290	10320	10350	10370	10390	10410	10430	10450	1047
	10490	10510	10534	10550	10570	10590	1061	10630	10650	10670	10690	10840	1085	11050	1106
	1107	11300	1131	1132	16600	20494	20614	38510	38664	39054	3940#	39650	40300	40650	4100
	44040	44170	45340	45840	45984	46144	75190 990	7520	75700	7571	75910	7594			
#GNIN	10	9594	4534 <i>e</i> 986 <i>e</i>	967	968	989	990	991	9924	9934	9940	1950	996	9974	998
	9994	1000	1001	1002	10034	1004	10050	1006	10070	1008	10090	1010	10110	1012	1013
	1014	10150	1016	10170	1018	10190	1020	10210	1022	10230	1024	10250	1026	10270	1028
	10290	1030	1031	10320	1033	10340	10350	1036	10370	1038 10530	10390	1040	10410	1042	1043
	1044	10450	1046	10470	1048	10490	1050	10510	1052	10550	1054	10550	1056	10570	1058
	1044 10590 10880 2107 2272 2779	1060	10610	1062	10630	1064	1050 10659 10949 2153	1066	10670	1068 20490	10690	1070 2053	1084e 2061e	2062	2069
	2107	2108	2109	2110	2151	2152	2153	2154	2196	2199	2200	2201	2269	2270	2271
	2272	2108 2368	2369	2110 2370 2789	2151 2371 2790	2640	2641	2642	2198 2643	2744	2050 2200 2745	2746	2747	2777	2778
	2779	2780	2788	2789	2790	2640 2791	2822	2642 2823 2912 2971	2824	2825	2833	2834	2635	2836	2867
	2868	2869	2870	2678	2879	2880	2881	2912	2913	2914	2915	2923	2924	2925	2926
	2868 2957	2869 2958	2870 2959	2878 2960 3049	2879 2968 3050	2969	2822 2881 2970	2971	3000	3001	2633 2915 3002	3003	3011	3012	3013
	3014	3047	3048	3049	3050	3058	3059	3060 3127	3061	3071	3072	3073	3074	3082 33084	3083 3309
	3084	3085	3114	3115 33190	3116	3117	3126	3127	3128	3129	33054	3306#	3307	33084	3309
	33164	33170	3318	33194	3320	33270	3126 33280 3513	3329	33300	3331	33440	33450	33460	3347	3346
	3349	3499	3500	3501	3502	3512	3513	3514	3515	3538	3539	3540	3541	3548	3549
	3550	3551	3561	3562	3563	3564	3571	3572	3573	3574	3584	3585	3586	3587	3594
	3595	3596	3597	3607	3608	3609	3610	3617	3618	3619	3620 3873e	3630 38740	3631 3875e	3632 3876	3633 3877
	3640 3878	3641	3642 38894	3643 38900	3854¢ 3891¢	3855 4 3892	3856 3893#	3857¢ 3894	3656 3900#	3861# 3909#	39100	39110	39124	3913	3914
	3915	38884 39184	39194	39200	39210	39224	3923	39240	3925	39270	39284	3929	39300	3931	3934
	39420	39434	39440	39450	3946	39470	3948	39504	39510	3952	39534	3954	39584	39594	3960

							L10	,						-
CVDMECO DMV11 CVDMEC.P11	LINE UNIT		MACY11	30A(1052 CROSS R) 12-JU		:12 PAG	E 202 NAMES					SEQ 1	99
39614	3962	39630	3964	39674	3968#	39694	39700	39710	3972	39730	3974	39780	39870	39884
39894		3991	39924	3993	39954	39964	3997	39984	3999	40034	4004#	40054	40064	4007
40084		40120	40130	40140	40150	4016#	4017	40180	4019	40230	40320	40334	40340	40354
4036	40370	4038	40400	4041#	4042	4043#	4044	40484	40494	40500	40510	4052	40530	4054
40584		4068#	40694	40700	4071	40720	4073	40750	40764	40770	4078	40790	4080	40830
40844	40854	40864	40870	4088	40890	4090	40934	41020	41030	41040	41050	4106	41070	4108
4110	41110	4112	41130	4114	41180	41190	41200	41210	4122	41230	4124	41280	41570	41584
41594	41600	4161	41624	4163	41650	41664	41670	41684	41690	41700	4171	41720	4173	41750
41764	41770	4178	41790	4180	41820	41830	41840	41850	41864	41870	4188	41890	4190	41920
41934	41940	4195	41960	4197	41990	42000	42010	42020	42034	42040	4205	42064	4207	42094
42104	42110	4212	42130	4214	42160	42170	42184	42190	42204	42210	4222	42230	4224	42330
4234	42350	42364	4237	42380	4239	42410	42424	42430	42440	42450	42460	4247	42480	4249
42514	42524	42534	4254	42554	4256	42580	42590	42600	42610	42620	42634	4264	42654	4266
42684	42690	4270	42710	4272	42824	42834	42840	42854	4286	42570	4288	42900	42910	42924
42934	42940	42950	4296	42970	4298	43000	43010	43020	4303	43040	4305	43070	43084	43094
43104	43110	43120	4313	43140	4315	43170	43184	43190	4320	43210	4322	43240	43250	43264
43276	43284	43290	4330	43310	4332	43340	43354	43364	4337	43380	4339	43410	43420	43430
43444	43450	43460	4347	43480	4349	43590	43600	43610	43624	4363	43640	4365	43670	43684
43694	43700	43710	43720	4373	43740	4375	43770	43784	43790	4380	43810	4382	43840	43850
43864	43870	43884	43894	4390	43910	4392	44370	44384	44400	44440	44450	44470	44510	44520
44544	44584	44590	44610	44790	44800	44810	44830	45094	45160	45370	45384	45390	45400	45410
4542	45594	45600	45644	45654	45710	45894	46010	46040	46170	46430	46450	46464	46534	46554
46564	46750	46770	46780	46870	46890	4690#	47000	47020	47030	47100	47120	47130	47230	47250
47264	47340	47360	47370	47450	47470	47480	47510	47780	47790	48100	48110	48120	48130	48150
48164		48424	48430	48540	48564	48570	48750	48760	48770	48780	48800	48810	48954	48964
48974		49000	49010	4908#	49090	49100	49110	49130	49140	49210	49220	49234	49244	49260
49274		49364	49370	49384	49400	49410	49480	49494	49500	49510	49534	49544	49610	49620
49634	49640	49664	49670	49740	49750	49760	49770	49790	49800	49874	49684	49890	49900	49920
49934		50010	50020	5003#	50050	5006#	50160	50170	50184	50190	50210	50224	50290	50300
50316	50320	50340	50350	5045#	50464	50470	5048#	50500	50510	5058#	50590	50600	50610	50634
50646		50750	50760	50770	50790	50800	50870	50884	50894	5090#	50920	50934	51030	51040
51054	51060	51080	51090	51160	51170	51180	51190	51210	51220	51320	51330	51340	51350	51370
51384		51460	51470	51480	51500	51510	51580	51590	51600	51610	51630	51640	51740	51750
51764	51770	51790	51800	51870	51880	51890	51900	51920	51930	52030	52040	52050	5206#	52080
52096	52160	52170	52180	52190	52210	52220	52300	52310	52320	52330	52350	52364	52410	52424
52434	52440	52490	58370	58390	58400	58470	58490	58500	58570	58594	58600	58710	58730	58740
58814	58834	58840	58910	58934	5894 <i>0</i> 5950 <i>0</i>	59010	59034	59040	5911¢ 5975¢	59130	59140	59200 59890	59224	59234
59314	59334	5884¢ 5934¢	59470	59490	59500	59584	5903¢ 5960¢	59610	59750	59770	59780	5989#	5991	59924
60004 60564	60024	60034	60110	60130	60140	60224	60240	60250	60330	60350	60360	60500	60524	60534
60564	60984	61000	61010	61080	61100	59580 60220 61110 61640 62260 62780	61180	61200	61210	61320	61340	61350	61420	61440
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62024	62120	62140	62150	62230	62250	62260	62334	62354	62364	62440	62460	62470	62554	62574
62534 63444	62664	62684 63564	62694 63584	62750	62770	62780	62810	63224	63240	63254	63320	63340	63354	63424
63444	63450	63564	63589	63590	63664	6368¢ 6425¢	63690	63764	63784	63790	63854	63870	63884	63964
63964	63990	64120	64140	64150	64230	64250	64264	64364	64384	64390	64470	64490	64500	64570
64594	64600	6468¢ 6544¢	64700	64710	64790	64810	6482¢ 6575¢	64900	64924	64934	64990	65010	65024	65054
65414	65434	65440	65634	65654	65664	65730	65750	65764	6583¢ 6642¢ 6729¢	65854	65864 66454	65934	65954	65964
66034	66054	6606#	66164	66180	66190	66270	66294	66300	66429	66440	66434	66534	66554	66564
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				125,714				F16							
CVDMECO	DMV11 L	INE UNIT	DIAG3	MACY11	30A(1052				203					SEQ 20	00
CVDMEC.	211 1	2-JUL-84	10:56		CRUSS M	EFERENCE	TABLE -	- MACRO I	NAMES						
	72330 72840	7234¢ 7285¢	72410 72960	72430 72980	72440 72990	72500 73070	72520 73090	7253¢ 7310¢	7261¢ 7321¢	7263¢ 7323¢	72640 73240	72710 73320	72730 73340	72740 73350	72824 73424
	73440 73970	7345 0 7396 0	73530 74120	7355¢	73560 74150	73630 74230	73650 74250	73664 74264	73740	73764	7377¢ 7443¢	73840 74540	73860 74560	73870 74570	73954 74654
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	7525	7526	75284	7529	7530	7531	75330	7534	7535	7536	7537	7539#	7540	7541	7542
	7525 7543	75450	7546	7547	7548	7549	75520	75700	75740	7591#	7592	75934			
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	75740	7575	41300	25404	00334	OEGG	03040	00070	00.20	0,000		. 2001	. 3030		. 333
1\$GNTE	10	9594	46344	47710	58200	6081	6306#	6526#	67110	6900#	71670				
1\$HAPT	10	9594	986#												
ISHNAP	10	9594	9864	1025		77000	77104	77704	77404	70514	70574	70614	70444	70774	7007
#INCR	39000	9594 39054	9620 39140	11050 39240	1130e 3930e	3308¢ 3934¢	33190 39400	33300 39470	3348¢ 3953¢	3851 <i>+</i> 3963 <i>+</i>	38570 39730	3861# 3978#	3866# 3985#	3877¢ 3992¢	3893 3998
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	47020	47100	47120	47230	47250	47340	46430 47360 48950	47450	47470	47510	47710	47720	47780	48100	4815
	48400	48420	48540	48564	48750	48800	48950	49000	49084 50054	49130	49210	49264 50294	49350 50340	49400 50450	4948 5050
	49534 50584	4961# 5063#	49664	49740 50790	4979e 5087e	49874 50924	49924 51034	50000 51080	51164	50160 51210	50210 51320	51370	51450	51500	5158
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	62810	63060	63070	63224	64120	63320	63340 64230	64250	63440	63560 64380	63580	63664	63684 64574	64594	6468
	64700	6387¢ 6479¢	64810	64900	64920	64990	6501	65054	65264	65270	65410	65430	65634	65654	6573
	65750	65834	65854	65934	65954	66030	66054	66164	66180	66270	6629#	66420	66440	66534	6655
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	71670	7168¢ 7261¢	71820 72630	71840 72710	7201 <i>0</i> 7273 <i>0</i>	72030 72820	72110 72840	72130 72960	72210 72980	7223 0 73070	7231 <i>0</i> 7309 <i>0</i>	73210	73230	73320	7334
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I\$MSK1	10	9594 9594													
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	75740	7588#													
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	3967#	3987	3995#	4003#	40120	40320	40400	4048#	4067#	40750	4083#	4102	41100	41180	4157

CVDMECO		INE UNIT	DIAG3 10:56	MACY11	30A(1052 CROSS RI) 12-JU		12 PAGE						SEQ 2	01
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	6527	67110	6712	6900#	6901	69100	6911	69894	6990	71670	7168	75190	75700		
1\$PUT	10	9594	3305#	33160	33270	33440	3854#	38734	30884	39094	39184	3927	39424	3950#	39584
	3967	39874	39954	4003#	4012	40320	4040#	4048#	40670	40750	40834	41020	41100	41180	41574
	41650	41750	41820	41920	41994	42090	42160	42334	42414	42510	42584	42684	42820	4290#	43004
	43070	43170	43240	43340	43410	43594	43670	43770	43844	45370					
1\$PUT1	10	9594	33050	3306	33160	3317	33270	3328	33440	3345	3346	3854#	3855	38730	3874
	3875	3888#	3889	3890	3891	39090	3910	3911	3912	39184	3919	3920	3921	3922	39274
	3928	39420	3943	3944	3945	39500	3951	3958#	3959	3960	3961	3967#	3968	3969	3970
	3971	39874	3988	3989	3990	39954	3996	40030	4004	4005	4006	40120	4013	4014	4015
	4016	40320	4033	4034	4035	40400	4041	40480	4049	4050	4051	40674	4068	4069	4070
	40750	4076	4077	40834	4084	4085	4086	4087	41020	4103	4104	4105	41100	4111	41184
	4119	4120	4121	41570	4158	4159	4160	41650	4166	4167	4168	4169	4170	41750	4176
	4177	41820	4183	4184	4185	4186	4187	41920	4193	4194	41990	4200	4201	4202	4203
	4204	42094	4210	4211	42160	4217	4218	4219	4220	4221	42330	4234	4235	4236	4241
	4242	4243	4244	4245	4246	42510	4252	4253	42584	4259	4260	4261	4262	4263	4268
	4269	42820	4283	4284	4285	42900	4291	4292	4293	4294	4295	43000	4301	4302	4307
	4308	4309	4310	4311	4312	43170	4318	4319	43240	4325	4326	4327	4328	4329	4334
	4335	4336	43410	4342	4343	4344	4345	4346	43594	4360	4361	4362	43670	4368	4369
	4370	4371	4372	43770	4378	4379	43840	4385	4386	4387	4388	4389	45370	4538	4539
	4540	4311	4312	43/14	4310	4319	43044	4303	4300	4301	4300	4309	43314	4330	4337
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1\$RBRO 1\$RNRO	10	9594	44790	4401											
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	4018	40220	4023	40320	4037	40400	4043	40480	4053	40570	4058	40670	4072	40750	4079
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	62550	62570	62664	62684	62750	62770	62800	6281	67004	64124	64144		64254		6430
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	65430	6563#	65654	65734	65750	65834	65854	65934	65950	6603#	6605#	66160	66184	66274	6629
	66424	66440	66534	66554	66644	6666#	66750	66770	66894	6690	67260	67280	67480	67500	6758

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VDMEC.		INE UNIT	DIAG3 10:56	MACY11	30A(1052 CROSS R) 12-JU		12 PAGE						SEQ 2	02
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	7128	71340	7135	71384	7139	71820				72110	72130	72210	72230	72310	7233
	72410	72430	72500	72520	7261	72634	72710	72730	72824	72840	72964	72984	73070	73090	7321
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	5881#	58834	58914	58934	59010	59034	59110	59134	59204	59224	59314	59334	59474	59494	595
	5960#	59754	59770	59894	59910	60000	60024	60110	60130	60220	60240	60334	60354	60500	605
	60564	6098#	61000	61084	61100	61184	6120#	61324	61340	61424	61440	61524	61540	61610	616
	61724	61740	61884	61900	61994	6201#	62124	62140	62234	62254	62334	62354	62444	62464	625
	62570		62684	62750	62770	6281	63220	63240	63324	63340	63424	63440	63564	63584	636
	63604	62664	62684	63054	63074	67064	63984	64124	64140	64234	64254	64364	64384	64470	644
	63680	63760	63780	63854	63870	63960	64004	64124		65014	45054		65434	6563#	656
	64570	64594	64684	64700	64790	64810	64900	64920	64990	65010	65054	65410		66444	665
	65730	65750	65830	65854	65934	65954	66030	66050	6616#	66184	66270	66294	66424	66444	665
	66554	66640	66664	66750	66770	6690#	67260	6728# 6825#	67480	6750¢ 6836¢	6758¢	67600	6768# 6849#	6770 0	677 686
	6780#	6788#	6790#	6800#	6802	68110	DE 1 30	DD / 30	DD//9	00.304	00.307	DOS / 8	000 40	00 304	600

CVDMECO CVDMEC.	MECO DMV11 LINE UNIT DIAG3 MACY11 30A(1052) 12-JUL-84 11:12 PAGE 206 MEC.P11 12-JUL-84 10:56 CPOSS REFERENCE TABLE MACRO NAMES										SEQ 203				
CVOIRC.	68730	6906#	69110	69360	69410	6955#	6960#	69740	6981+	6990#	70280	70330	70470	70520	70590
	7064#	70784	70830	7090#	70954	71090	71140	71284	71350	71394	71824	7184#	7201	72030	72110
	72130	7221.	72230	72310	72330	72410	72430	7250#	72524	72614	72630	72710	72730	72820	72844
	72964	7298#	73074	7309#	73214	73230	73324	73340	73420	73440	73530	73550	73630	73654	73740
	73760	7384	73864	73954	73974	74120	74140	74230	7425#	74400	74420	74540	7456#	74654	74674
	74760	7478#	74870	74894	74984	75000	75040	1000	1000	1000	1001	1000	1007	1004	47704
M\$WORD	10	9594	10250	1034 4813	1084# 4875#	1086 4876	1087 4877	1088 4878	1089 4895#	1090 4896	1091 4897	1092 4898	1093 4908#	1094 4909	47784
	4810 0 4911	4811	4812 4922	4923	4924	49354	4936	4937	4938	49484	4949	4950	4951	49614	4910 4962
	4963	4964	49740	4975	4976	4977	49874	4988	4989	4990	50004	5001	5002	5003	5016#
	5017	5018	5019	5029#	5030	5031	5032	5045#	5046	5047	5048	50584	5059	5060	5061
	50740	5075	5076	5077	5087#	5088	5089	5090	51030	5104	5105	5106	5116#	5117	5118
	5119	51320	5133	5134	5135	51450	5146	5147	5148	51584	5159	5160	5161	51740	5175
	5176	5177	51870	5188	5189	5190	52030	5204	5205	5206	52160	5217	5218	5219	52300
	5231	5232	5233	52410	5242	5243	5244	6906#	6936#	6937	6938	6939	6955#	6956	6957
	6958	69740	6975	6976	6977	70280	7029	7030	7031	7047#	7048	7049	7050	70594	7060
	7061	7062	70780	7079	7080	7081	70904	7091	7092	7093	71090	7110	7111	7112	71280
	7129	7130	7131	75230	75284	75330	75394	75454	7592	7593					
M\$XFER	10	9594													
NEWTST	16484	4618	4752	5796	6057	6282	6506	6691	6874	7140					
NTST	16480	4618	4752	5796	6057	6282	6506	6691	6874	7140					
OPEN	10	9594 9594	982												
POINTE	10	9594	3853	3908	3917	3926	3941	3949	3957	3966	3986	3994	4002	4011	4031
KTHID	4039	4047	4066	4074	4082	4101	4109	4117	4267	3700	3700	3774	4002	4011	4031
PRINTF	10	9594	3304	3315	3326	3343	4207	4	4501						
PRINTS	10	9594		0020	5555										
PRINTX	10	9594	3872	3887	4156	4164	4174	4181	4191	4198	4208	4215	4232	4240	4250
	4257	4281	4289	4299	4306	4316	4323	4333	4340	4358	4366	4376	4383		
READBU	10	9594													
READEF	10	9594	4436	4443	4450	4457									
RFLAGS	10	9594													
SETDF	16484	2107	2151	2198	2269	2368	2640	2744	2777	2788	2822	2833	2867	2878	2912
	2923 3561	2957 3571	2968 3584	3000 3594	3011	3047	3058	3071	3082	3114	3126	3499	3512	3538	3548
SETHRO	16480	33/1	3364	3334	3607	3617	3630	3640							
SETPRI	10	9594													
SETSF	16480	7374													
SETSET	16480														
SETSFT SETVEC	10	9594	4536												
SLASH	10	9594	1076	1080											
STARS	10	9594													
SVC	10	9570	958												
T#GEN	16484	2107	2151	2198	2269	2368	2640	2744	2777	2788	2822 3126	2833 3499	2867	2878	2912
	2923	2957	2968	3000 3594	3011	3047	3058	3071	3082	3114	3126	3499	3512	3538	3548
VEED	3561	3571	2968 3584 4778#	50064	3607	3617	3630	3640							
XFER XFERF	10	9594 9594	41104	6906#											
XFERT	10	9594													
#GEDF	16480	4809	4874	4894	4907	4920	4934	4947	4960	4973	4986	4999	5015	5028	5044
	5057	5073	5086	5102	5115	5131	5144	5157	5173	5186	5202	5215	5229	5240	6935
	6954	6973	7027	7046	7058	7077	7089	7108	7127						
#GEHRD	16484														
#GESF	16480														
#GESFT	16484														
#GTDF	1648#	2106	2150	2197	2268	2367	2639	2743	2776	2787	2821	2832	2866	2877	2911

J16

SEQ 204

CVDMECO DMV11 LINE UNIT DIAG3 MACY11 30A(1052) 12-JUL-84 11:12 PAGE 207 CVDMEC.P11 12-JUL-84 10:56 CROSS REFERENCE TABLE -- MACRO NAMES

3593 3560 3570 3583

\$GTHRD 1648# \$GTSF 1648# \$GTSFT 1648#

. ABS. 034514 000

ERRORS DETECTED: 0

CVDMEC.CVDMEC/SOL/CRF-SVC34R.MLB,CVDMEC.P11

RUN-TIME: 33 41 4 SECONDS RUN-TIME RATIO: 104/79=1.3 CORF USED: 20K (39 PAGES)